Notebook, N-10-07-23

DATE TIME MIN. AMP'S

July 23, 1910

#6 Cells #210, #231, #237

Cells taken from the Greyhound truck and returned to laboratory July 22, 1910.

These cells have had a service of 17,000 miles to date. Their solutions were changed and renewed on March - 1910

Cell #210 #237 have been refilled once since being in service

Cell #231 Had been refilled once since being in the service but does not show a leak at C.P.P. Factory so was examined and refilled with 21% H.H + 11.2 g. L.I.O.H per liter

Cells returned Aug. 1st to August 10, 1910.

DATE TIME MIN. AMP'S

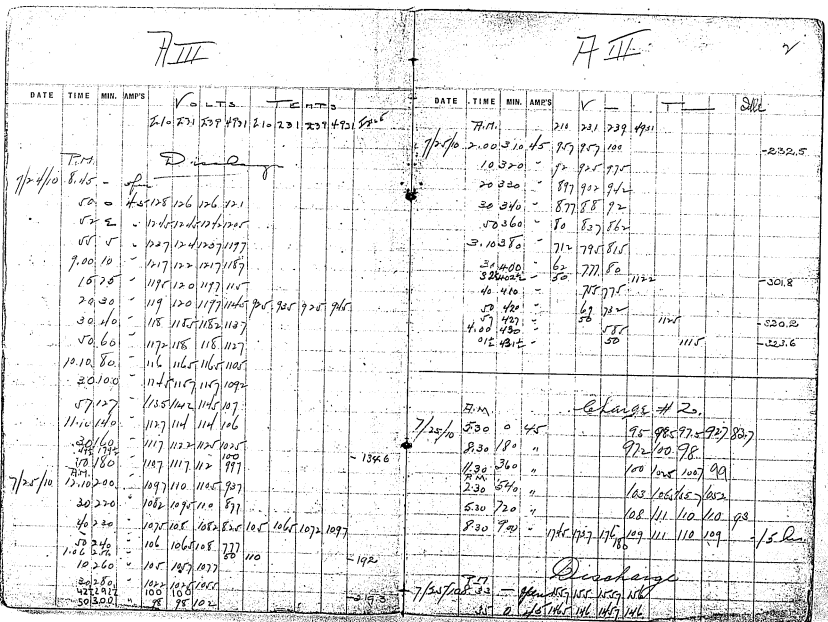
July 23, 1910

#6 #4931

Cell was taken from one of the Adams Exp. Co., trucks - Oriental T.P. Brooklyn where it had been in regular service about 7 months. Shipped from C.P.P. factory, Dec. 28-09

This cell was taken to test its electrolyte, as it was thought that ordinary drinking water had been used regularly for filling.

Electrolyte - 21% H.H + 11.2 g. L.I.O.H. per liter of solution when cell was received from Brooklyn. After standing several days the solution was changed again, mixed with 21% H.H + 20 g. L.I.O.H. at the laboratory



R III

DATE	TIME	MIN.	AMP'S	VOLTS				TEMPS				
				210	231	239	247	210	231	239	247	255
	P.M.			Discharge								
7/24/10	8.45	-	4									
	50	0	4	125	126	126	121					
	55	5	"	120	122	122	120					
	9.00	10	"	127	127	127	127					
	10	20	"	117	122	122	117					
	15	25	"	119	120	120	117					
	20	30	"	119	120	119	117					
	30	40	"	118	118	118	117					
	50	60	"	117	118	118	117					
	10.10	80	"	116	116	116	116					
		20	100	"	114	116	116	116				
	57	137	"	135	114	116	116	107				
	11.10	190	"	117	114	114	116	106				
	30	140	"	117	117	117	115	105				
		170	180	"	117	117	117	115	100			
	P.M.											
7/25/10	12.10	200	"	109	110	110	115	97				
	30	220	"	108	109	110	110	97				
	40	230	"	107	108	108	108	105	105	107	107	
	50	240	"	106	106	108	108	77				
	1.00	250	"					80	110			
	10	260	"	105	107	107						
	20	280	"	102	103	103	106					
	4272	917		100	101							
	50	300	"	98	98	102						

- 1366
- 192
- 273

R III

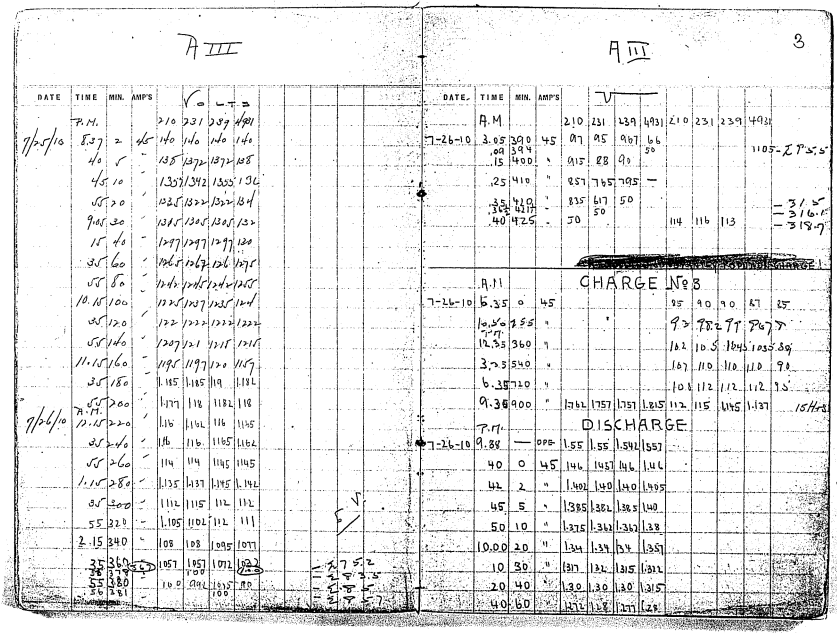
DATE	TIME	MIN.	AMP'S	V				T				SHUNT
	P.M.			210	231	239	247					
7/24/10	2.00	310	45	89	97	100						-232.5
	10	320	"	92	95	97						
	20	330	"	89	92	94						
	30	340	"	87	88	92						
	50	360	"	80	83	86						
	3.10	380	"	71	79	81						
	30	400	"	62	77	80						
	32	break	"	50				112				-301.8
	40	410	"		75	77						
	50	420	"		69	72						320.2
	57	427	"		50			114				
	4.00	430	"			58			111			-327.6
	02	431	"									

Discharge #2.

	P.M.											
7/25/10	5.30	0	45				98	98	97	93	88	
	8.30	180	"				97	100	98			
	11.30	360	"				100	98	100	99		
	P.M.											
	2.30	540	"				103	105	105	105		
	5.30	720	"				108	111	110	110	98	
	8.30	900	"	114	117	116	109	111	110	109		-15 Q.

Discharge

7/26/10	P.M.											
	2.30	0	45	114	117	116	114					



A III

DATE	TIME	MIN.	AMPS	V			
	P.M.			210	231	239	493
7/25/10	8.37	2	45	140	140	140	140
	40	5	"	138	137	137	138
	45	10	"	133	134	135	136
	55	20	"	125	133	132	134
	9.05	30	"	131	130	130	132
	15	40	"	127	129	127	130
	35	60	"	126	126	126	127
	55	80	"	124	124	124	125
	10.15	100	"	122	122	122	124
	35	120	"	122	122	122	122
	55	140	"	120	121	121	121
	11.15	160	"	119	119	120	119
	35	180	"	118	118	119	118
	55	200	"	117	118	118	118
7/26/10	A.M. 12.15	220	"	116	116	116	116
	35	240	"	116	116	116	116
	55	260	"	114	114	114	114
	1.15	280	"	113	113	113	113
	35	300	"	112	112	112	112
	55	320	"	110	110	110	111
	2.15	340	"	108	108	108	107
	35	360	"	107	107	107	107
	55	380	"	106	106	106	106

A III

3

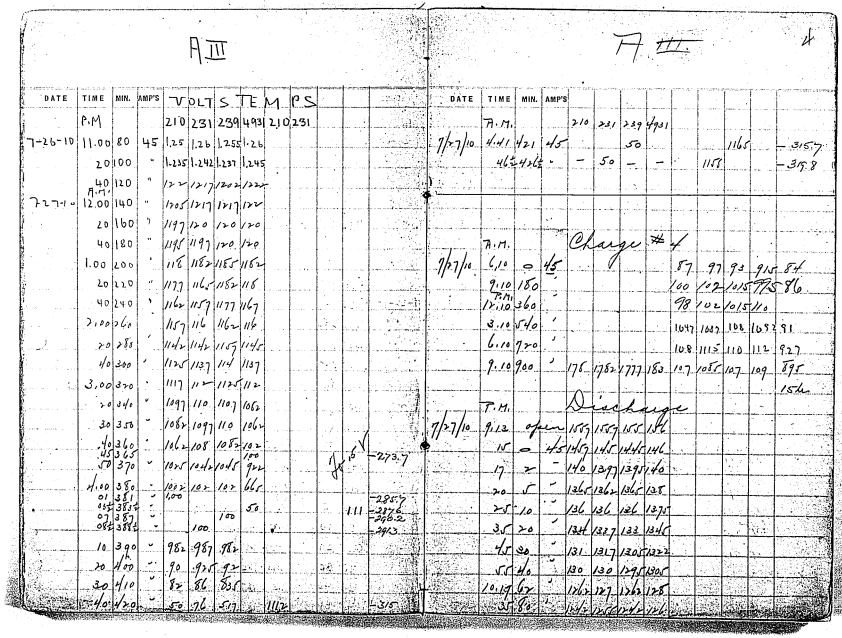
DATE.	TIME	MIN.	AMPS	V							
	A.M			210	231	239	493	210	231	239	493
7-26-10	3.05	390	45	97	95	96	66				
	.08	394					50				1105 - Σ 5.5
	.15	400	"	915	88	90					
	.25	410	"	857	765	795	—				
	.35	420	"	835	617	50					— 31.5
	.35	417			50						— 316.5
	.40	425	"	50				114	116	113	— 318.7

CHARGE No 8

	A.M							95	90	90	87 25"
7-26-10	6.35	0	45								
	10.50	255	"					92	88.2	91	86.7
	P.M. 12.35	360	"					102	10.5	1045	1035.89
	3.35	540	"					107	110	110	110 98
	6.35	720	"					104	112	112	112 95
	9.36	900	"	1761	1757	1751	1815	112	115	1145	1137 15Hrs

DISCHARGE

7-26-10	P.M. 9.38	—	OFF	1.55	1.55	1.542	1557				
	40	0	45	146	1457	146	1.46				
	42	2	"	1.402	140	140	1405				
	45	5	"	1385	1382	1385	140				
	50	10	"	1375	1.363	1.367	138				
	10.00	20	"	134	134	134	1357				
	10	30	"	1317	132	1315	1332				
	20	40	"	130	130	130	1315				
	40	60	"	1272	128	1277	128				



A III

DATE	TIME	MIN.	AMPS	VOLTS				TEMPS													
	P.M			210	231	239	493	210	231												
7-26-10	11.00	80	45	1.25	1.26	1.255	1.26														
	20	100	"	1.235	1.242	1.237	1.245														
	40	120	"	122	121	1202	1222														
7-27-10	A.M. 12.00	140	"	1205	1217	1217	1224														
	20	160	"	1197	120	120	120														
	40	180	"	1198	1197	120	120														
	1.00	200	"	118	1182	1152	1162														
	20	220	"	1177	1162	1152	118														
	40	240	"	1162	1157	1177	1167														
	2.00	260	"	1157	116	1162	116														
	20	280	"	1142	1142	1157	1152														
	40	300	"	1132	1137	114	1137														
	3.00	320	"	1117	112	1122	1122														
	20	340	"	1097	110	1107	1062														
	40	358	"	1082	1097	110	1062														
	4.00	360	"	1062	108	1082	1022														
	05	365					100														
	10	370	"	1042	1042	1042	992														
	4.00	380	"	1022	102	102	662														
	01	381	"	100																	
	05	385	"				50														
	07	387	"		100																
	08	388	"	100																	
	10	390	"	982	987	982															
	20	400	"	90	923	92															
	30	410	"	82	86	852															
	40	420	"	52	76	527	1112														

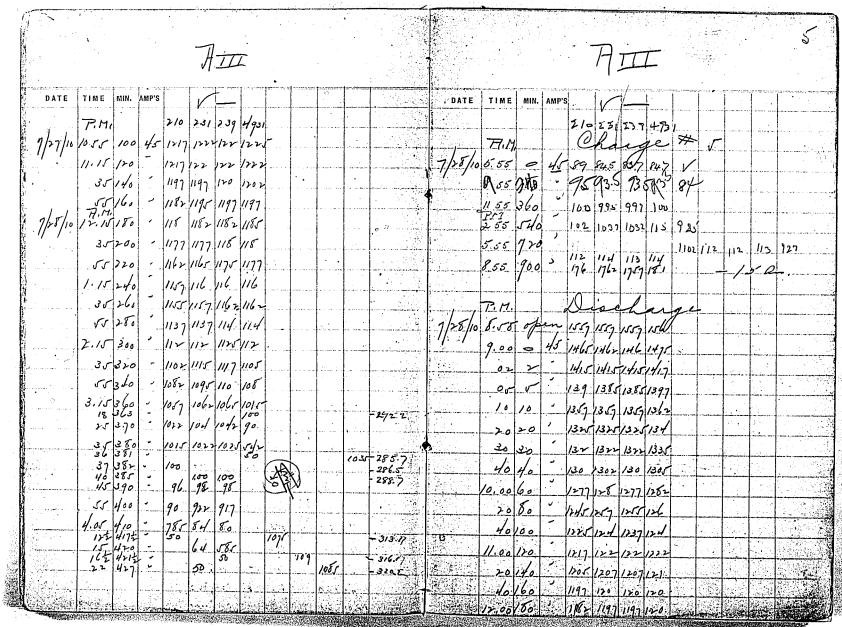
-273.7

-285.7
-279.6
-298.2
-293

-315

A III

DATE	TIME	MIN.	AMPS																		
	A.M.			210	231	239	4931														
7/27/10	4:41	421	45			50								1165		-315.7					
	46	426	"	-	-	50	-	-				1157				-315.8					
	A.M.																				
7/7/10	6.10	0	45	Charge # 4								87	97	92	915	84					
	9.10	180	"									100	102	1015	1015	86					
	P.M. 12.10	360	"									98	102	1015	110						
	3.10	540	"									1047	1042	106	1052	91					
	6.10	720	"									108	1115	110	112	927					
	9.10	900	"	176	1782	1777	1803					107	1055	107	109	895					
	P.M.			Discharge												154					
7/27/10	9.12	open		1557	1557	1552	1574														
	15	2	45	1467	1457	1442	1462														
	17	2	"	140	1387	1397	1402														
	20	5	"	1362	1362	1362	1382														
	25	10	"	1362	1362	1362	1372														
	35	20	"	1342	1327	1332	1342														
	45	30	"	131	1317	1302	1322														
	55	40	"	130	130	1297	1302														
	10.05	50	"	1282	1277	1262	1282														
	15	60	"	1262	1262	1252	1272														



AIII

| DATE | TIME | MIN. | AMPS | | |

A III

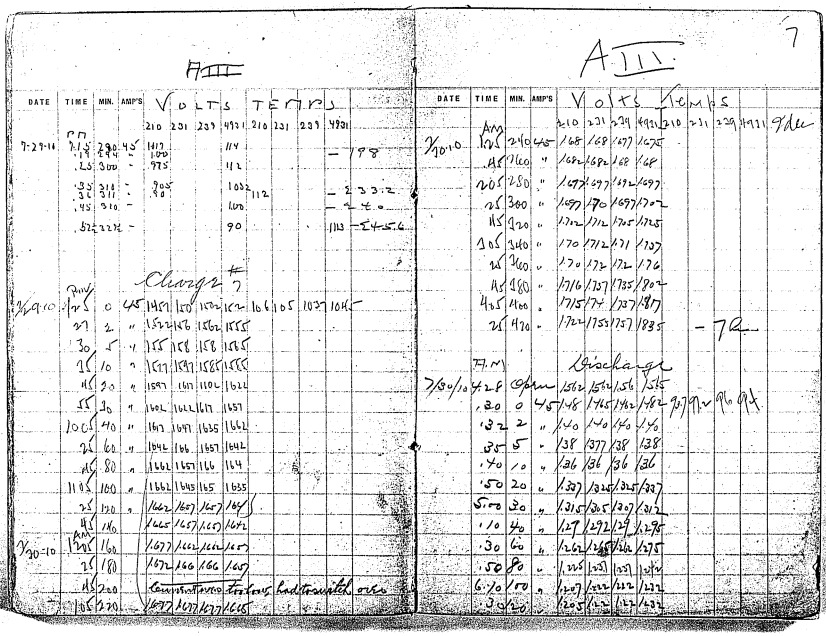
DATE	TIME	MIN.	AMPS	Volts								
	P.M.											
			1/10	231	239	493						
7/29/10	12:20	200	45	118	118	118						
	40	220	"	116	117	117						
	1.00	240	"	116	116	117						
	20	260	"	115	116	116						
	40	280	"	115	115	116						
	2.00	300	"	115	114	114						
	20	320	"	115	114	113						
	40	340	"	110	111	109						
	3.00	260	"	107	108	108	100					
	.10	370	"	103	107	106	90					
	.20	380	"	100	105	104	70					
	.30	390	"	100								
	.40	400	"	98	101	100						
	.50	410	"	95	99	97						
	.60	420	"	80	96	96						
	4.00	430	"	85	96							
	.10	4309	"	63	50							
	.20	4409	"	50								
7-29-10	A.M.			Changed to 6								
	7:00	0	45				87	88	90	85	87	
	10:00	3	"									
	P.M.											
	2:20	7	"	117	116	115	110	101	103	104	103	

20 min. Overstayed

A III

DATE	TIME	MIN.	AMPS	Volts								
				231	239	493						
7-29-10	P.M.			Changing								
	1:23	—	45	137	135	135	135					
	.25	0	"	145	142	142	142					
	.27	1	"	139	138	138	140					
	.30	5	"	132	135	135	136					
	.35	10	"	133	134	134	136					
	.45	20	"	133	132	131	134					
	.55	30	"	131	130	130	132					
	3.05	40	"	130	126	125	1303					
	.15	50	"	132	125	125	1303					
	.45	80	"	124	124	124	124					
	4.05	100	"	123	123	123	125					
	.25	120	"	121	121	122	123					
	.45	140	"	120	120	1202	1222					
	5.05	160	"	1184	1181	1197	1217					
	.25	180	"	117	117	1173	120					
	.45	200	"	116	116	1165	120					
	6.05	220	"	1142	114	1142	118					
	.25	240	"	1122	1115	1127	1177					
	.45	260	"	1095	101	1025	1102					
	.48	263	"		100							
	.51	266	"			100						
	.55	270	"	1093	98	955	1057					
	.58	273	"		90							
	7.05	280	"	1084		1142						

119 — 116



A III

DATE	TIME	MIN.	AMP'S	VOLTS				TEMPS			
				210	231	239	4921	210	231	239	4921
7-29-10	PM										
	1:15	270	45	1412			114				-198
	1:15	284	"	1055							
	1:25	300	"	975			112				
	1:30	311	"	905			1032				-2232
	1:32	311	"	88				112			
	1:45	310	"				1000				-246
	1:52	2222	"				90				1113 -2456
				Charge +							
7/29/10	PM										
	1:55	0	45	1457	1600	1602	1622	106	105	1037	1041
	2:1	2	"	1552	1576	1582	1585				
	2:30	5	"	1555	1578	1578	1585				
	2:1	10	"	1577	1597	1587	1595				
	2:15	20	"	1597	1611	1604	1624				
	2:35	30	"	1602	1622	1617	1637				
	10:05	40	"	1612	1637	1635	1642				
	2:1	60	"	1642	166	1657	1642				
	2:15	80	"	1662	1657	166	164				
	11:05	100	"	1662	1665	165	1655				
	2:1	120	"	1662	167	167	167				
	2:15	140	"	1665	1657	1657	1674				
	2:35	160	"	1677	1662	1662	167				
7/30/10	AM										
	12:05	180	"	1672	166	166	167				
	2:15	200	"	Discontinued Test as Test had Terminated early							
	10:5	220	"	1677	1677	1677	1675				

A III

7

DATE	TIME	MIN.	AMP'S	VOLTS				TEMPS			
				210	231	239	4921	210	231	239	4921
	AM										9dec
7/30/10	12:5	240	45	168	168	167	1675				
	12:5	1760	"	1682	1682	168	165				
	12:05	280	"	1697	1697	1692	1697				
	12:5	300	"	1697	170	1697	1702				
	12:15	920	"	1702	1702	1705	1705				
	12:05	340	"	170	1712	171	1707				
	12:5	360	"	170	172	172	176				
	12:15	980	"	1716	1757	1735	1802				
	12:35	1400	"	1715	174	1737	1817				
	12:5	420	"	1724	1753	1757	1835				-72
	PM			Discharge							
7/30/10	4:26	0	45	1562	1562	1556	1585				
	4:30	2	"	1548	1545	1542	1582	97	97	96	99
	4:32	5	"	140	140	140	140				
	4:35	10	"	138	1377	138	138				
	4:40	20	"	136	136	136	136				
	4:50	30	"	1327	1325	1325	1327				
	5:00	40	"	1315	1305	1307	1312				
	5:10	60	"	1277	1272	1275	1278				
	5:30	80	"	1262	1255	1262	1275				
	5:50	100	"	1245	1235	1237	1242				
	6:10	120	"	1227	1222	1222	1232				
	6:30	140	"	1205	1202	1207	1232				

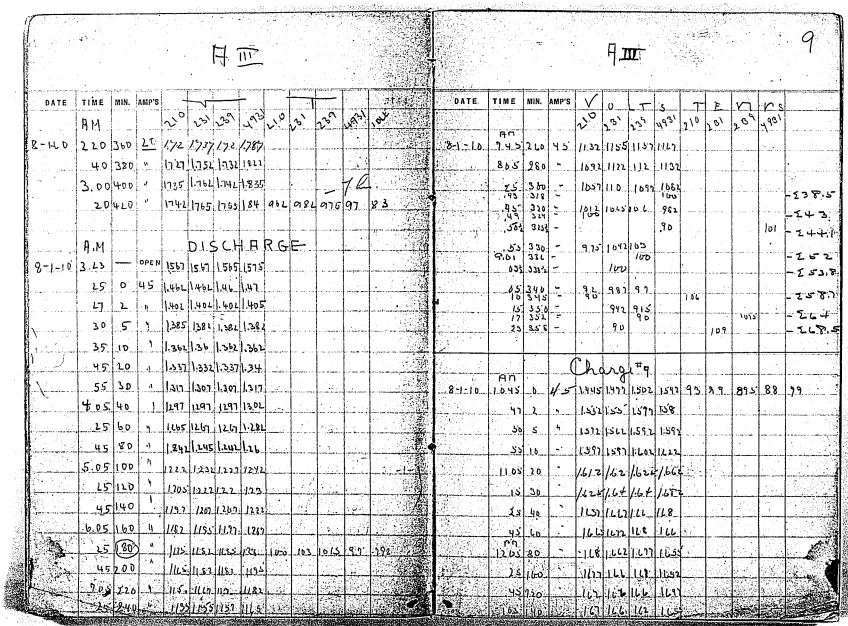
DATE	TIME	MIN.	AMP'S	V 210	V 231	V 239	V 4931	T 210	T 231	T 239	T 4931	T 1012
	P.M.											
7-31-10				Charge #8								
	8.20	0	45	148	156	156	158	835	835	837	842	835
	.22	2	"	158	161	161	160					
	.25	5	"	161	164	164	162					
	.30	10	"	163	166	166	165					
	.42	22	"	165	169	169	167					
	.50	30	"	167	169	169	170					
	9.00	40	"	167	170	169	169					
	.20	60	"	168	170	170	168					
	.40	80	"	170	170	169	167					
	10.00	100	"	170	169	168	166					
	.20	120	"	168	168	168	166					
	.40	140	"	168	167	167	166					
	11.00	160	"	168	168	168	167					
	.20	180	"	168	168	168	167	934	947	946	93	84
	.40	200	"	169	168	168	168					
	A.M.											
8-1-10	12.00	220	"	168	168	168	168					
	.20	240	"	168	168	168	168					
	.40	260	"	169	169	168	169					
	1.00	280	"	170	169	169	170					
	.20	300	"	170	170	170	172					
	.40	320	"	170	171	170	174					
	2.00	340	"	171	171	171	176					

DATE	TIME	MIN.	AMP'S	V 210	V 231	V 239	V 4931	T 210	T 231	T 239	T 4931	T 1012
	P.M.											
7/30/10	6.50	140	45	120	120	121	122					
	7.10	160	"	(117)	117	119	120					
	.30	180	"	117	118	119	120					
	.50	200	"	116	117	117	118					
	8.10	220	"	115	116	116	117					
	.30	240	"	114	116	116	117					
	.50	260	"	114	116	116	117					
	9.10	280	"	113	115	115	116					
	.32	302	"	113	115	115	116					
	.45	315	-	113								
	.55	325	-	113								
	10.00	330	-	113								
	.01	331	"									
	.02	332	"									
	.03	333	"	30								
	.10	340	=	113								
	.15	345	"									
	.15	345	"	90								

OK to W.T.

ferrule 3 1/4 cm

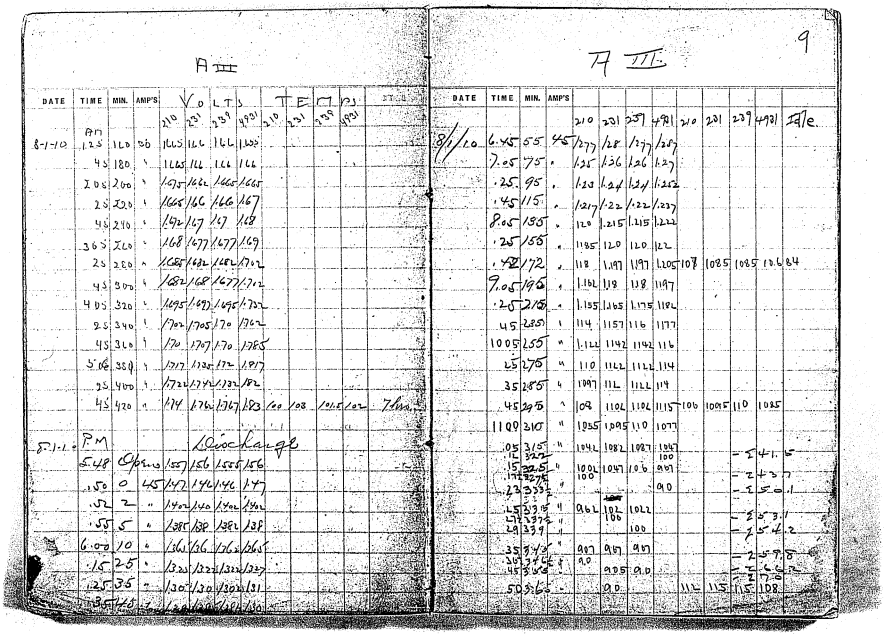
cut fittings, finish



DATE	TIME	MIN.	AMP'S	V 210	0 201	T 239	S 4931	T 210	E 201	N 209	S 193	
	AM											
8-1-10	2.00	360	25	1732	1727	1724	1787					
	40	320	"	1727	1734	1732	1811					
	3.00	400	"	1735	1761	1741	1835					
	20	440	"	1742	1765	1755	184	484	484	476	497	483
	AM			DISCHARGE								
8-1-10	3.45	—	OPEN	1567	1597	1565	1575					
	25	0	45	1486	1496	1496	1497					
	47	2	"	1491	1494	1491	1495					
	30	5	"	1385	1381	1381	1382					
	35	10	"	1346	1336	1352	1362					
	45	20	"	1337	1332	1337	1334					
	55	30	"	1311	1307	1301	1317					
	4.05	40	"	1297	1297	1297	1301					
	25	60	"	1265	1269	1261	1281					
	45	80	"	1242	1245	1241	1246					
	5.05	100	"	1223	1231	1227	1242					
	25	120	"	1205	1222	1222	1223					
	45	140	"	1197	1201	1201	1221					
	6.05	160	"	1182	1195	1191	1249					
	25	180	"	1175	1183	1165	1194	1205	1203	1205	1209	1192
	45	200	"	1165	1183	1183	1195					
	7.05	220	"	1165	1169	1170	1181					
	25	240	"	1158	1165	1157	1174					

DATE	TIME	MIN.	AMP'S	V 210	0 201	T 239	S 4931	T 210	E 201	N 209	S 193	
	AM											
8-1-10	7.45	240	45	1132	1155	1137	1147					
	8.05	280	"	1693	1172	132	1132					
	.25	320	"	1057	110	1052	1052					
	.45	360	"	1012	1045	104	962					
	.59	398	"				90				101	
	.53	390	"	935	1072	103						
	9.01	334	"									
	.05	334	"		100							
	.45	340	"	96	983	97						
	10	345	"									
	.15	350	"		992	915						
	.17	334	"			90						
	.23	335	"		90							
	AM			Charge #9								
8-1-10	10.45	0	45	1895	1971	1902	1893	93	89	895	88	99
	47	2	"	1852	1855	1879	1858					
	30	5	"	1832	1861	1893	1892					
	55	10	"	1857	1887	1864	1882					
	11.05	20	"	1812	162	1824	1866					
	.15	30	"	1828	164	184	1872					
	.35	40	"	1851	1871	184	1878					
	.45	60	"	1865	1872	184	1866					
	12.05	80	"	1868	1862	1877	1865					
	.25	100	"	1877	1881	1881	1882					
	.45	120	"	1870	1881	1881	1881					
	1.05	140	"	1870	1881	1881	1881					
	.25	160	"	1877	1881	1881	1881					
	.45	180	"	1870	1881	1881	1881					
	2.05	200	"	1870	1881	1881	1881					
	.25	220	"	1870	1881	1881	1881					
	.45	240	"	1870	1881	1881	1881					

-238.5
-243
-244.5
-252
-253.5
-258
-264
-268.5



A III

DATE	TIME	MIN.	AMP'S	V O L T S				T E M P S				STATE
				210	231	239	4981	210	231	239	4981	
	AM											
8-1-10	125	120	36	165	166	166	1662					
	45	180	1	1665	166	166	166					
	2 05	200	1	1655	1662	1665	1665					
	25	220	1	1665	166	166	167					
	45	240	1	1672	167	167	168					
	305	260	1	168	1677	1677	169					
	25	280	1	1685	1682	1685	1702					
	45	300	1	1682	168	1677	1702					
	405	320	1	1695	1692	1695	1722					
	25	340	1	1702	1705	170	1762					
	45	360	1	170	1707	170	1785					
	506	380	1	1717	1732	172	1917					
	25	400	1	1722	1734	1732	182					
	45	420	1	174	1746	1747	183	120	108	1015	102	Tem
8-1-10	PM			Clock Right								
	548	Open		155	156	1555	156					
	150	0	45	1572	1746	1746	147					
	52	2	"	1602	160	1602	1621					
	55	5	"	1685	168	1681	168					
	6-00	10	"	166	166	166	1665					
	15	25	"	1231	1222	1232	1237					
	25	35	"	1302	130	1302	131					
	35	45	"	1372	137	1372	138					

A III

9

DATE	TIME	MIN.	AMP'S									
				210	231	239	4981	210	231	239	4981	Idle
8/1/10	6.45	55	45	1277	128	1277	1267					
	7.05	75	"	1251	1256	126	1271					
	.25	95	"	1281	1284	1284	1282					
	.45	115	"	1287	1292	1292	1297					
	8.05	135	"	1295	1315	1315	1322					
	.25	155	"	1185	120	120	122					
	.42	172	"	118	1197	1197	1205	107	1085	1085	10684	
	9.05	195	"	1161	118	118	1197					
	.25	215	"	1155	1165	1175	1184					
	45	235	"	114	1157	116	1177					
	1005	255	"	1132	1142	1142	116					
	25	275	"	110	1122	1132	114					
	35	285	"	1097	112	1122	114					
	45	295	"	102	1102	1102	1115	106	1095	110	1025	
	1109	310	"	1055	1095	110	1077					
	05	315	"	1042	1082	1092	1067					
	15	325	"	1001	1047	106	1051					
	23	333	"				100					
	45	353	"	0961	102	1022						
	57	337	"		100							
	28	339	"									
	35	345	"	987	097	097						
	45	355	"	0.0								
	50	360	"		095	0.0						
					0.0				111	115	108	

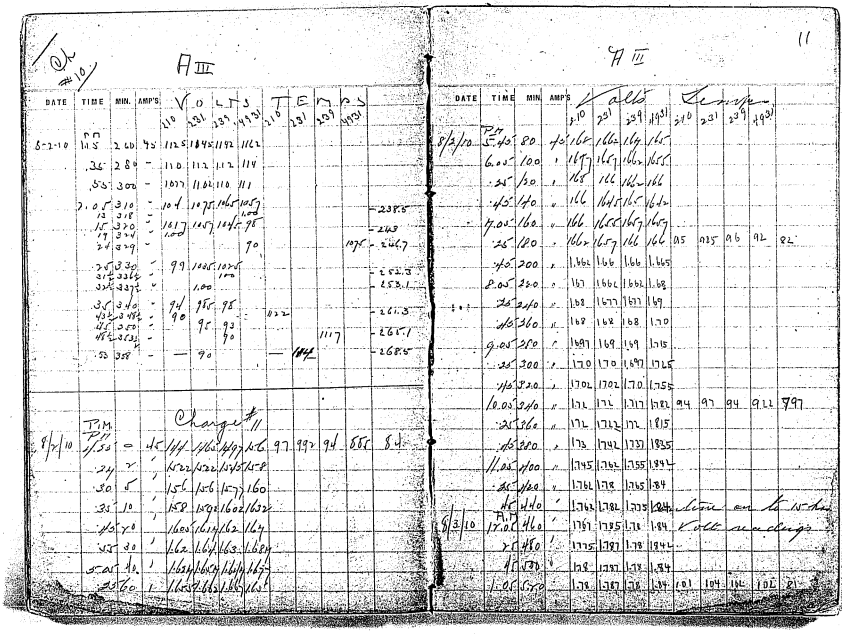
A III

DATE	TIME	MIN.	AMP'S	VOLTS 210	231	239	495	TEMPS 210	231	239	495	DIFF
	A.M			CHARGE # 10								
8-2-10	1.50	0	45	1.43	1.428	1.502	1.567	92	95	95	91	825
	5.2	2	"	1.545	1.545	1.56	1.595					
	55	5	"	1.581	1.582	1.581	1.61					
	2.00	10	"	1.605	1.612	1.607	1.662					
	10	20	"	1.617	1.64	1.63	1.685					
	20	30	"	1.64	1.661	1.694	1.70					
	30	40	"	1.647	1.681	1.661	1.684					
	50	60	"	1.68	1.682	1.685	1.663					
	3.10	80	"	1.68	1.665	1.672	1.655					
	30	100	"	1.67	1.652	1.665	1.657					
	50	120	"	1.682	1.665	1.661	1.662					
	4.10	140	"	1.675	1.665	1.657	1.664					
	30	160	"	1.675	1.661	1.661	1.664					
	50	180	"	1.675	1.667	1.667	1.667	932	962	95	92	802
	5.10	200	"	1.68	1.672	1.672	1.675					
	30	220	"	1.672	1.677	1.68	1.682					
	50	240	"	1.684	1.683	1.683	1.692					
	6.10	260	"	1.667	1.682	1.682	1.69					
	30	280	"	1.675	1.672	1.677	1.67					
	50	300	"	1.69	1.69	1.687	1.702					
	7.10	320	"	1.693	1.693	1.69	1.727					
	30	340	"	1.702	1.702	1.70	1.752					

A III

10

DATE	TIME	MIN.	AMP'S	VOLTS 210	231	239	495	TEMPS 210	231	239	495	DIFF
	AM											
8-2-10	7.50	360	45	172	1.725	1.72	1.802					
	8.10	380	"	1.734	1.742	1.73	1.825					
	30	400	"	1.734	1.72	1.733	1.84					
	50	420	"	1.72	1.72	1.725	1.845					
				DISCHARGE								
8-2-10	AM 8.55	—	OPEN	1.577	1.577	1.575	1.58					
	55	0	45	1.47	1.47	1.462	1.48	96	985	97	942	60
	57	2	"	1.475	1.475	1.47	1.496					
	9.00	5	"	1.40	1.392	1.382	1.395					
	05	10	"	1.36	1.372	1.362	1.395					
	15	20	"	1.345	1.34	1.342	1.345					
	25	30	"	1.32	1.347	1.317	1.322					
	35	40	"	1.305	1.305	1.292	1.317					
	45	60	"	1.283	1.277	1.275	1.29					
	10.15	80	"	1.242	1.252	1.232	1.252					
	35	100	"	1.22	1.225	1.222	1.242					
	55	120	"	1.262	1.22	1.213	1.205					
	11.15	140	"	1.20	1.21	1.205	1.222					
	35	160	"	1.157	1.20	1.197	1.215					
	55	180	"	1.18	1.187	1.18	1.202	101	1035	101	988	81
	12.15	200	"	1.165	1.195	1.18	1.197					
	35	220	"	1.165	1.167	1.162	1.185					
	55	240	"	1.165	1.17	1.16	1.177					



A III

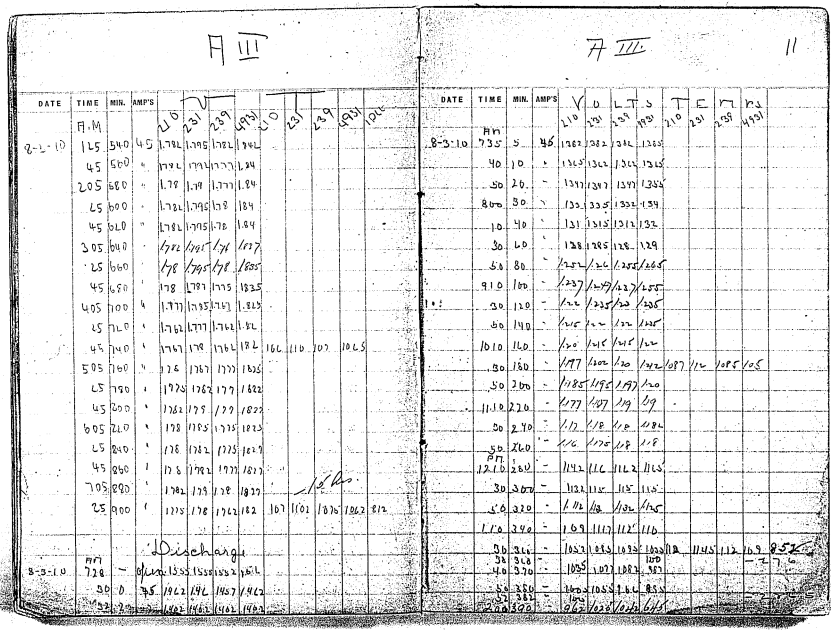
DATE	TIME	MIN.	AMP'S	VOLTS 110	231	229	1193	TEMPS 110	231	229	1193
8-2-10	11:5	2.60	45	112.5	1845	1192	1122				
	.36	2.80	-	110	112	112	114				
	.55	3.00	-	1077	1104	110	111				
	2.05	3.10	-	104	1075	1065	1057				
		15	3.18	-	1.00						
		15	3.20	-	1041	1057	1047	98			
		17	3.24	-	1.00						
		24	3.29	-				90			
	.35	3.30	-	99	1025	1026					
		3.32	-			1.00					
		3.36	-								
	.35	3.40	-	94	955	95					
		3.43	-	90							
	.45	3.50	-		95	93					
		3.53	-			90					
	.53	3.58	-		90						

Change #11

8/2/10	PM 1:35	=	4C	1641	1601	1641	1626	97	997	94	885	84
	.45	"	"	1622	1622	1585	1618					
	.50	"	"	1561	1561	1577	1601					
	.55	10	"	1581	1602	1602	1632					
	2.00	20	"	1600	1619	1622	1647					
	.05	30	"	1622	1641	1633	1681					
	.10	40	"	1641	1661	1641	1657					
	.15	50	"	1661	1681	1661	1681					

A III

DATE	TIME	MIN.	AMPS	VOLTS 110	231	229	1193	TEMPS 110	231	229	1193
8/2/10	PM 5:40	80	40	162	1662	164	1657				
	6.00	100	"	1657	1662	1662	1655				
	.25	120	"	168	1662	1662	1662				
	.45	140	"	166	1645	1657	1642				
	7.00	160	"	166	1655	1657	1647				
	.25	180	"	1662	1657	166	1662	05	035	96	92	82
	.45	200	"	1661	166	1661	1665					
	8.00	220	"	167	1661	1661	1682					
	.25	240	"	168	1677	1671	169					
	.45	260	"	168	168	168	170					
	9.00	280	"	1681	169	169	1715					
	.25	300	"	170	170	1697	1725					
	.45	320	"	1701	1702	170	1755					
	10.05	340	"	171	171	1717	1781	94	97	94	9.11	997
	.25	360	"	172	1722	172	1815					
	.45	380	"	173	1741	1733	1835					
	11.05	400	"	1745	1761	1755	1844					
	.25	420	"	1761	178	1765	184					
	.45	440	"	1761	1781	1775	1844	Lost on the Water				
8/3/10	AM 12:05	460	"	1761	1775	178	184	Kate readings				
	.25	480	"	1775	1781	178	1841					
	.45	500	"	179	1781	178	184					
	1.05	520	"	178	1781	178	184	101	104	104	102	21



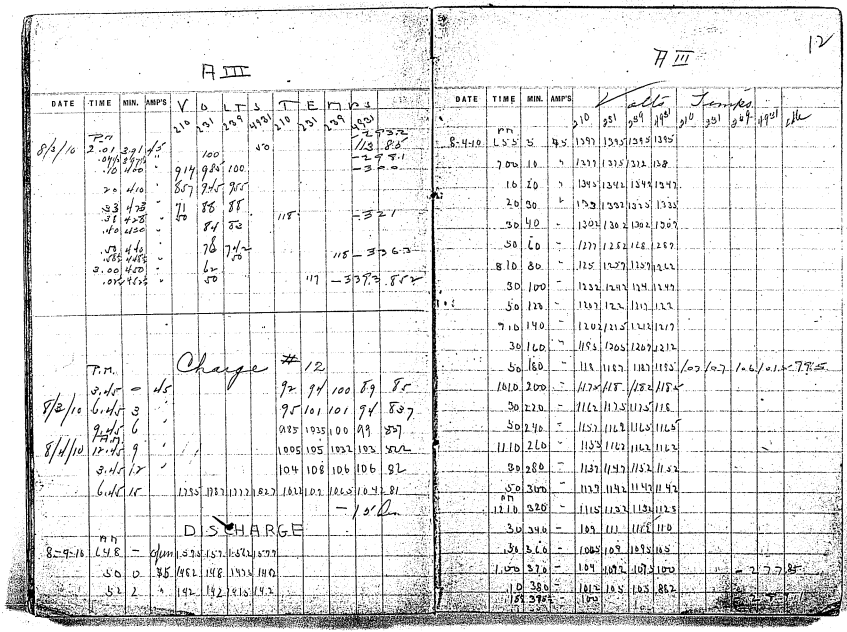
A III

DATE	TIME	MIN.	AMP'S	V 210	V 231	V 239	V 495	L 210	L 231	L 239	L 495	I 210	I 231	I 239	I 495
	A.M.														
8-2-10	125	540	45	1.782	1.795	1.782	1.781								
	45	600	"	1.781	1.794	1.777	1.84								
	205	620	"	1.79	1.79	1.777	1.84								
	25	600	"	1.782	1.795	1.78	184								
	45	610	"	1.781	1.795	1.78	1.84								
	305	610	"	1.772	1.791	1.78	1.837								
	25	660	"	178	1.795	178	1835								
	45	650	"	178	1.791	1775	1835								
	405	700	4	1.777	1.785	1.761	1.815								
	25	710	"	1.761	1.777	1.761	1.82								
	45	740	"	1.767	178	1.761	182	166	110	107	1065				
	505	760	"	1776	1787	1775	1835								
	25	750	"	1776	1782	1777	1822								
	45	800	"	1782	1775	1777	1822								
	605	820	"	178	1785	1775	1823								
	25	840	"	178	1782	1775	1823								
	45	850	"	178	1782	1777	1823								
	705	890	"	1782	179	178	1837								
	25	900	"	1775	178	1762	182	167	1101	1076	1062	812			
				Discharge											
	PM														
8-3-10	728	—	0	1555	1555	1552	1561								
	30	0	35	1962	196	1967	1962								
	32	2	"	1962	1965	1961	1962								

A III

11

DATE	TIME	MIN.	AMP'S	V 210	V 231	V 239	V 495	L 210	L 231	L 239	L 495	I 210	I 231	I 239	I 495
	AM														
8-3-10	735	5	45	1362	1382	1341	1385								
	40	10	"	1365	1364	1344	1365								
	50	20	"	1377	1387	1377	1384								
	800	30	"	1332	1335	1332	1354								
	10	40	"	131	1315	1312	132								
	30	60	"	128	1285	128	129								
	50	80	"	1255	1265	1255	1265								
	910	100	"	1237	1249	1237	1255								
	30	120	"	1225	1235	1225	1235								
	50	140	"	1215	1225	1221	1225								
	1010	160	"	1210	1215	1215	1225								
	30	180	"	1197	1205	1210	1222	1087	114	1085	1105				
	50	200	"	1185	1192	1197	1210								
	1110	220	"	1177	1187	119	119								
	50	240	"	1172	1178	1180	1184								
	50	260	"	1166	1170	118	118								
	PM														
	1210	280	"	1142	116	1162	1165								
	30	300	"	1132	1145	1155	1155								
	50	320	"	1112	118	1132	1145								
	110	340	"	1109	1113	1127	116								
	30	360	"	1062	1093	1093	1103	113	1045	112	109	852			
	30	390	"				1079								
	40	430	"	1035	1077	1082	1087								
	50	480	"	1002	1045	1061	1071								
	52	532	"	1002											
	28	560	"	962	1030	1038	1045								



A III

DATE	TIME	MIN.	AMPS	V	6	LT	3	T	E	M	N 3
				210	231	229	428	210	231	229	450
	PM										2732
8/2/10	2.01	3.91	45		100		70				113 85
	.07	2.97	"								-2 97.1
	.10	4.00	"	914	98	100					-3 00
	.20	4.10	"	86	94	95					
	.33	4.23	"	71	88	88					
	.51	4.28	"	60				115			-3 21
	.10	4.50	"		84	82					
	.13	4.40	"		78	74				115	-3 63
	.18	4.45	"			70					
	3.00	4.20	"		64			117			-3393 85
	.07	4.27	"		60						

A III

DATE	TIME	MIN.	AMP'S	VOLTS 210	230	250	4930	TEMPS 210	230	250	4930	REMARKS
8-4-10	pm 12.0	2.5	46	96	103	1025	56 50	1055	111	110	107	81
	.22½	3.5	"								107	-2743
	2.00	3.5	"			100						-2746
	25	3.5	"		100							-2755
	30	4.00	"	915	995	98						
	40	4.10	"	831	94	922						
	50	4.20	"	56 50	86	82						
	3.15	4.35	"				1112					-3 1 61
	2.00	4.30	"		76	65						
	.03½	4.33½	"			50						
	.09½	4.39½	"		50			1105				-3 2 76

Charge #13

8/4/10	PM 3.30	0	1/0				88	94	94	92	832	
	6.30	3	"				928	94	95	90	89	
	9.30	6	"				962	97	963	94	1385	
8/5/10	12.30	9	"				15	995	952	946	80	
	3.30	12	"				1015	105	1022	1017	818	
	6.30	15	"	1011	1021	1021	107	105	107	108	817	
										1/2		
8/5/10	AM 6.30	18	1/0	1021	1021	1021	1058					Discharge
	12	0	"	1011	1011	1011	1048					
	12	2	"	1011	1011	1011	1048					
	40	5	"	1021	1021	1021	1058					

A III 13

DATE	TIME	MIN.	AMP'S	VOLTS 210	230	250	4930	TEMPS 210	230	250	4930	REMARKS
8/5/10	AM 6.45	10	1/0	1021	1021	1021	1057					
	55	20	"	1011	1011	1011	1048					
	7.05	30	"	1031	1012	1012	1057					
	15	40	"	1030	1030	1030	1062					
	25	60	"	1025	1025	1027	1062					
	35	80	"	1052	1057	1055	1056					
	8.15	100	"	1032	1032	1032	1052					
	25	120	"	1022	1025	1022	1022					
	35	140	"	1022	1025	1027	1027					
	9.15	160	"	1030	1025	1025	1025					
	25	180	"	1035	1030	1030	1030	1022	1018	1005	982	
	55	200	"	1018	1019	1019	1018					
	10.15	220	"	1017	1018	1018	1018					
	35	240	"	1016	1018	1018	1018					
	55	260	"	1016	1015	1017	1016					
	11.15	280	"	1015	1016	1016	1015					
	35	300	"	1014	1014	1014	1012					
	55	320	"	1013	1035	1035	1035					
	12.15	340	"	109	1015	1030	108					
	35	360	"	1032	1005	111	1035					
	1 35	380	"	1062	1055	110	1032					
	55	400	"	1032	1085	1085	962					-2741
	2.15	420	"	1085	1065	1065	985					

A III

DATE	TIME	MIN.	AMP'S	Volts				Temps			
	P.M.			210	231	229	493	210	231	229	493	Idle
8/5/10	1.05	39.0	45	997	10	45	1045	50	1060			2 9 2.5
	.15	40.0	"	985	1015		101					
	.18	403	"	—	100		—					3 0 2.2
	.20	405	"	—	100		—					3 0 3.7
	.25	410	"	.86	.99		966	—				
	.35	420	"	.787	.92		897	—				
	.42	427	"	.80	—		—	—	112			3 1 2.2
	.45	430	"	—	955		80	—				
	.55	440	"	—	.745		60					
	2.02	447	"				40		1102			3 3 3.2
	2.05	450	"		54							
	.06	457	"		50				1152			3 3 8.2

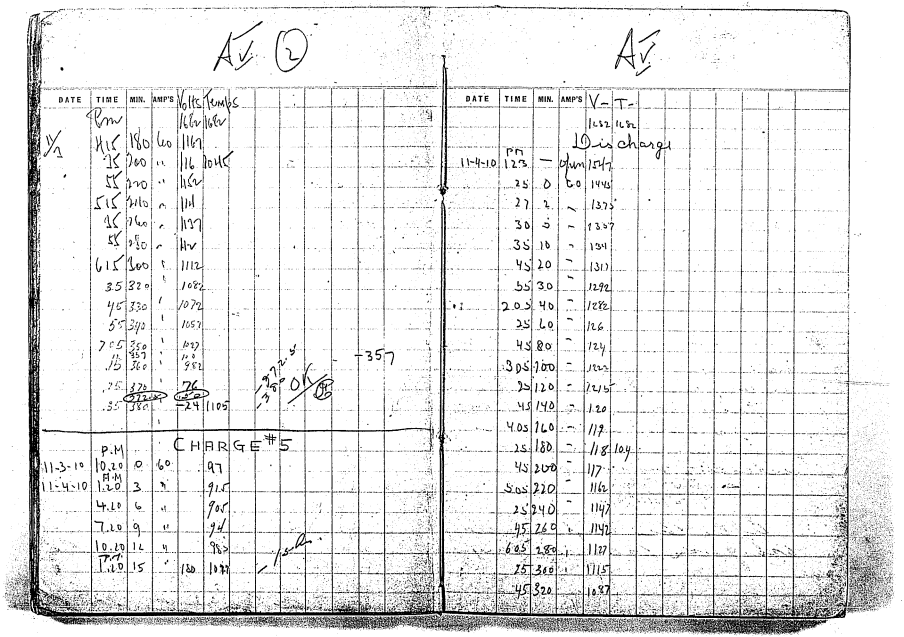
Cells not visible —
Type of cells
2 Exide 3 FR 3 Recharged 10 hours
@ 60 Amps. and were
then returned to the
Factory Charging Station
(August 10, 1910)

DATE	TIME	MIN.	AMP'S

A I (2)

DATE	TIME	MIN.	AMP'S
			November 22d 1910.
			A P cell #1682
			Regular cell, of average capacity, from stock of Storage Battery Co. sent to laboratory for special tray test (See Page 5 of Miscellaneous Readings, Vol. III)
			This cell was charged 2800 Amp. hours and when examined for the last time was found that the bottom had sagged about 1/16" out of line
			This cell had the regular thin form of P. P. A. Pb.

DATE	TIME	MIN.	AMP'S	V.	T.
				1672	1682
				Charge #4	
11-21-10	PM				
	4:0	0	6.	754	
11-31-0	7.0	3	.	P2	
	4-10	6	.	95:5	
	7.10	9	.	99:2	
	10.10	12	.	103	15 V
	11.0	13'	.	1087	109 /
				Discharge	
11-3-10	AM				
	11.3	—	6/10	1342	
	15	0	60	145	
	17	2	=	1363	
	20	5	=	135	
	25	10	=	1335	
	35	20	=	1269	
	45	30	=	1287	
	55	40	=	1277	
	215	60	=	1259	
	35	80	=	1215	
	55	100	=	1247	
	315	120	=	1202	
	35	140	=	1197	
	55	160	=	1187	



AV (2)

DATE	TIME	MIN.	AMP'S	Volts	Temps
	PM			166v	166
11/2	11:15	180	60	1167	
	11:35	200	"	116	104F
	11:55	220	"	1162	
	12:15	240	"	1161	
	12:35	260	"	1157	
	12:55	280	"	1147	
	1:15	300	"	1142	
	1:35	320	"	1082	
	1:45	330	"	1072	
	1:55	340	"	1057	
	2:05	350	"	1037	
	2:15	360	"	982	
	2:25	370	"	26	
	2:35	380	"	=24	1105

-357

CHARGE #5

	P.M.				
11-3-10	10:20	10	60		97
11-4-10	AM 1:20	3	"		91.5
	4:20	6	"		90.5
	7:20	9	"		94
	10:20	12	"		96
	PM 1:20	15	"	160	107

AV

DATE	TIME	MIN.	AMP'S	V-	T-
				1252	1252
				10 discharge	
11-4-10	PM 123	—	ohm	1247	
	25	0	to	1245	
	27	2	"	1375	
	30	5	"	1307	
	35	10	"	134	
	45	20	"	1311	
	55	30	"	1292	
	2:05	40	"	1282	
	25	60	"	126	
	45	80	"	124	
	3:05	100	"	1223	
	25	120	"	1215	
	45	140	"	120	
	4:05	160	"	119	
	25	180	"	118	104
	45	200	"	117	
	5:05	220	"	116	
	25	240	"	1147	
	45	260	"	1142	
	6:05	280	"	1137	
	25	300	"	1115	
	45	320	"	1087	

A V ⑤

DATE	TIME	MIN.	AMP'S	V	T
				N82	1682 2012
11/4/10	6	65	330	1076	
		705		1055	
	15			1017	
	18	353		100	
	25	360		976	
	31½	369½		50	1072

-353

-369.5

JK

114-10 Disconnected from P.B. and set aside.

an average signal laborer could give it.

Tray was given #35 ex. trough with cells in the following positions and is directly marked

2/67 - 7/315 - 4/696

After this test, the tray was given 500 ride bumps.

DATE TIME MIN. AMP'S

November 7th, 1910.

C & D Cells
1315-1670-1696

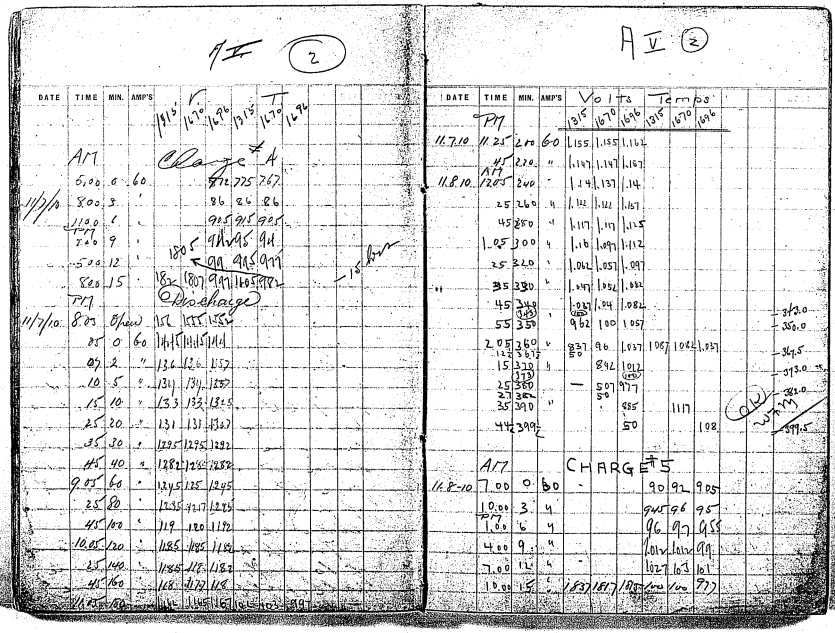
This set of cells were taken from the regular stock at C.P.R.C.

Filled with 21% H+P.G. 1.10 Sp. Gr. each cell, & had the three regular forming runs at Commercial Testing Department.

Cells were mounted in a special tray designed by T.A.C. which in turn was mounted on a four wheeled truck in such a way as to hold it upright and also give it a small amount of play with bumps and vibration.

Truck was run a distance of 60 ft. into a concrete wall, with all the force

— See Next Page —



9H (2)

DATE	TIME	MIN.	AMP'S	1315	1670	1696	1315	1670	1696
	AM			Change #4					
	5:00	0	60		772	775	767		
11/9/10	8:00	3	"		86	86	86		
	11:00	6	"		905	915	905		
	PM 2:00	9	"	1805	904	915	911		
	5:00	12	"		899	905	897		
	8:00	15	"	1811	1807	1805	1812		
	PM			Discharge					
11/7/10	8:00	8/acc		152	155	154			
		0	60	1315	1670	1696			
		2	"	136	126	157			
		5	"	131	134	1252			
		10	"	133	132	1315			
		20	"	131	131	1310			
		30	"	1295	1295	1282			
	AM	40	"	1282	1295	1282			
	9:00	60	"	1245	1255	1245			
		80	"	1235	1217	1225			
		100	"	119	120	1192			
	10:00	120	"	1185	1195	1182			
		140	"	1185	118	1182			
		160	"	118	1172	118			
	11:00	180	"	116	1165	116	1165	1165	1165

AV (2)

DATE	TIME	MIN.	AMP'S	1315	1670	1696	1315	1670	1696	
	PM									
11.7.10	11 25	220	60	1.155	1.155	1.162				
	AM	220	"	1.147	1.147	1.157				
11.8.10	1205	240	"	1.14	1.137	1.14				
	25	260	"	1.122	1.122	1.167				
	45	280	"	1.117	1.117	1.125				
	1.05	300	"	1.116	1.097	1.112				
	25	320	"	1.062	1.057	1.097				
"	35	330	"	1.047	1.052	1.082				
	45	340 (345)	"	1.037 (1.042)	1.04 (1.045)	1.082				343.0
	55	350	"	962	1.00	1.057				350.0
	2.05	360 (1.22 3.617)	"	837	896	1.037	1.067	1.042	1.037	
	15	370 (375)	"		842	1.012 (1.017)				362.5
	25	380	"		507	977				373.0
	35	390	"			985		1.117		383.0
	44	399	"			950			1.02	377.5
	AM			CHARGE #5						
11.8.10	7.00	0	60	-		90	92	905		
	10.00	3	"			945	96	95		
	1.00	6	"			96	97	955		
	4.00	9	"			1.01	1.03	99		
	7.00	12	"	-		1027	1.03	101		
	10.00	15	"	1837	1817	1827	1.00	1.00	977	

AV

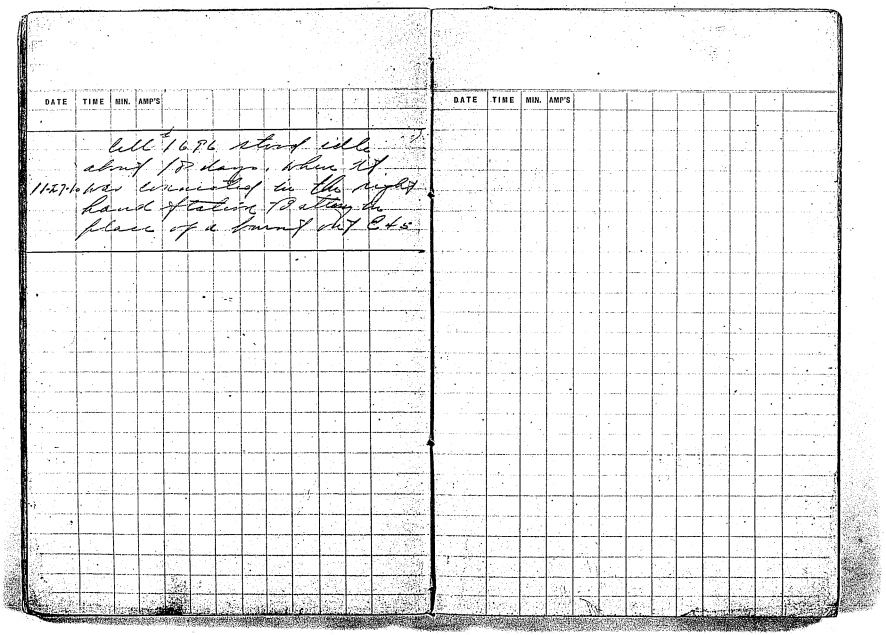
DATE	TIME	MIN.	AMPS	V_0 1315	I_{T_8} 1670	I_{T_8} 1694	Temp 1315	Temp 1670	Temp 1696
11-8-10	PM			Overnight					
	10 03	0/200		158	158	158			
	05	0	60	146	145	145			
	07	2	"	335	337	335			
	10	5	"	335	337	337			
	15	10	"	337	337	337			
	25	20	"	312	317	315			
	35	30	"	292	298	295			
	45	40	"	278	278	278			
	11 55	60	"	274	274	274			
	25	80	"	225	225	225			
	45	100	"	215	215	215			
11-9-10	12 17	120	"	202	202	202			
	25	140	"	187	192	195			
	45	160	"	177	182	179			
	1 05	180	"	162	165	167			
	25	200	"	162	162	16			
	45	220	"	155	147	155			
	2 05	240	"	139	134	152			
	25	260	"	135	135	142			
	45	280	"	132	132	135			
	3 05	300	"	109	095	115			
	15	310	"	109	090	109			

AV (2)

DATE	TIME	MIN.	AMPS	V_0 1315	I_{T_8} 1670	I_{T_8} 1694	Temp 1315	Temp 1670	Temp 1696	
	AM									
11/9	3 25	320	60	1067	1075	1097				
	55	330 (330)	"	1015 (985)	1055	1080				-338.5
	4 45	344 (340)	"	982 (100)	1021	1075				-343.5
	55	355 (350)	"	635 50	745	1055				-353.0
	5 05	366 (360)	"	-285 (80)	782 (185)	1125				-366.0
	15	375	"	—	-265	960	1152	1135		-367.0
	18	373	"			925				
	21	376	"			85				
	24	379	"			72				
	27	382	"			531	OK			
	27½	383½	"			50			1122	-382.5
					x	o				

11/9/10 All ± 1315 was cut open for examination and was found to be intact except for break in grid at lower corner of one plate. No bone or injured tubes or pockets could be found.

Groups were weighed in distilled water about 40 hours, then dried over Sunday in drying oven. Were then [illegible]



DATE | TIME | MIN. | AMP'S

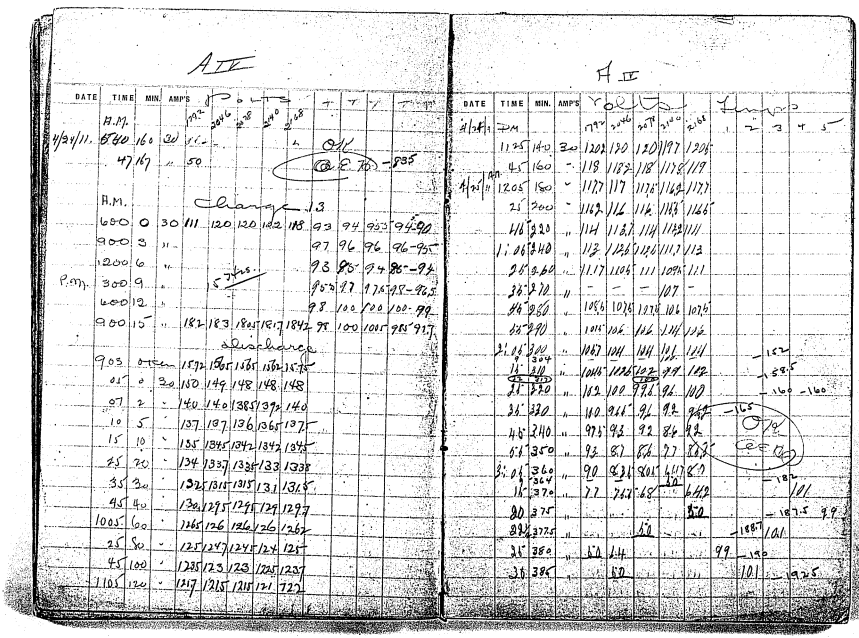
bell 1686 stood idle about 18 days. when it was connected in the night hand of tailor 73 stay in place of a burnt out C.T.S.

DATE | TIME | MIN. | AMP'S

IV

DATE	TIME	MIN.	AMP'S
1/21.11	PM		Received
			five 4 Volt Cells for Junior Service
			as loaned by E. J. Ross Jr.
H.22.11	PM		Cells were tested for height of Solution
			& distilled H2O added as
			follows.
			# 2046 200 C.C.
			2140 197 C.C.
			1792 115 C.C.
			2168 197 C.C.
			2078 195 C.C.
			Why was they connected as Board
			stood 36 hours was Sunday
			and then discharged fully

DATE	TIME	MIN.	AMP'S	V. 1792	V. 2046	V. 2078	V. 2140	V. 2168	T. 1792	T. 2046	T. 2078	T. 2140	T. 2168
	A.M.			Discharged					12				
A.M.	11	2.55	O'clock	1.84	1.83	1.80	1.80	1.78	78	76	77	77	78
		3.00	0	80	68	94	92	94	88			-.5	
		.02	2	"	77	80	81	82.5	81.5				
		.05	5	"	78.5	80	80.5	82	80.5				
		.10	10	"	80.5	81	82	81	81				
		.20	20	"	82	82	82	82	81.7				
		.30	30	"	82	82	82	82	82				
		.40	40	"	80	80	80.5	80.5	80.7				
		.50	50	"	79	79	79.5	79.5	79.7				
		4.00	60	"	78	78	78	78	78.2				
		.10	70	"	X	X	X	X	X				
		.20	80	"	75.2	74.5	75	77.7	74.2				
		.30	90	"	72	69.7	70	69	71				
		.40	100	"	70	66.2	67.5	66.5	67.5				
		.50	110	"	61	64	63.2	62	62.5				
		5.00	120	"	60.5	58.5	58	58.7	60				
		10	130	"	60.5	58	58	58	58		90		68
		15	133	"	—	58	—	58	—				66.5
		17	136	"	60		58		59				
		20	140	"	(V)		58		58			91	67
		22	143	"	62		—		—				79.5
		27	147	"	—		—		60				

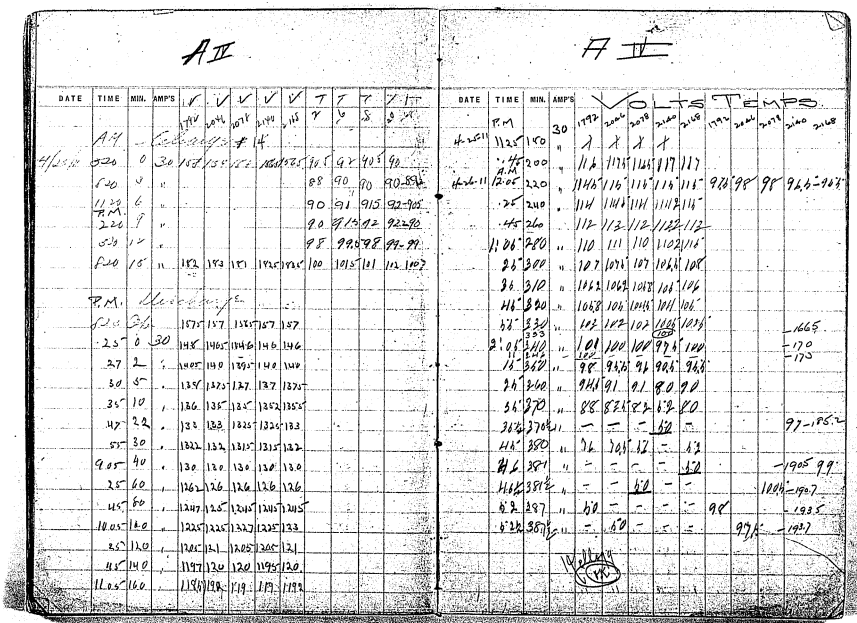


AIII

DATE	TIME	MIN.	AMPS	Volts							
	A.M.			204	206	208	210	212			
4/24/11	6 60	160	30	111							
	4 167	"	50								
	A.M.			Change -1.3							
	600	0	30	111	120	120	102	118	93	94	93 94 90
	900	3	"						97	96	96 96-95
	1200	6	"						98	98	97 96-94
P.M.	300	9	"					5 hrs.	95	97	97 98-98.5
	600	12	"						98	100	100 100-99
	900	15	"	182	183	183	181	184	98	100	100 98 97
				discharge							
	903	0		157	156	156	156	156			
	01	0	30	150	149	148	148	148			
	07	2	"	140	140	138	139	140			
	10	5	"	137	137	136	136	137			
	15	10	"	135	134	134	134	134			
	25	20	"	134	133	133	133	133			
	35	30	"	132	131	131	131	131			
	45	40	"	130	129	129	129	129			
	1005	60	"	126	126	126	126	126			
	25	80	"	125	124	124	124	124			
	45	100	"	123	123	123	123	123			
	1105	120	"	121	121	121	121	122			

AIV

DATE	TIME	MIN.	AMPS	Volts							
				194	196	198	200	202	1	2	3 4 5
4/24/11	7PM										
	11 25	140	30	120	120	120	120	119			
	"	45	160	"	118	118	118	118	118		
4/25/11	am 12.05	160	"		117	117	117	116	117		
	25	200	"		116	116	116	116	116		
	46	220	"		114	113	114	114	113		
	1.06	240	"		113	113	113	113	113		
	26	260	"		111	110	111	109	111		
	36	270	"		-	-	-	107	-		
	46	280	"		106	106	106	106	106		
	56	290	"		104	104	104	104	104		
	2.06	300	"		102	102	102	102	102		
	16	310	"		100	100	100	99	100		
	26	320	"		98	98	98	98	98		
	36	330	"		96	96	96	96	96		
	46	340	"		94	94	94	94	94		
	56	350	"		92	92	92	92	92		
	3.06	360	"		90	90	90	90	90		
	16	370	"		88	88	88	88	88		
	30	375	"		86	86	86	86	86		
	35	380	"		84	84	84	84	84		
	36	385	"		82	82	82	82	82		



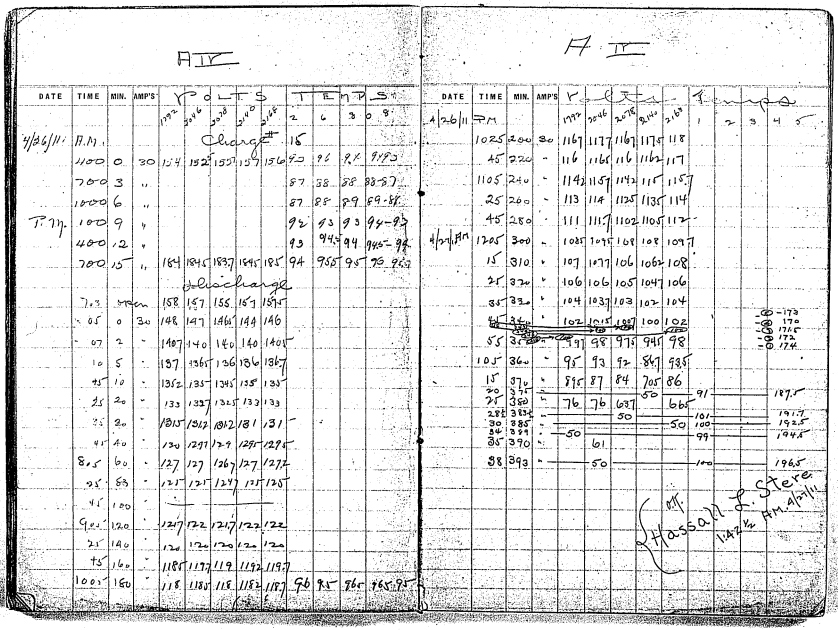
AII

DATE	TIME	MIN.	AMP'S	V	V	V	V	V	T	T	T	T
				1194	1204	1208	1194	1185	Y	Y	S	S
	AM		Recharge # 4									
4/20/11	020	0	30	1185	1195	1192	1185	1175	96	92	90	90
	040	4	"						88	90	90	90-88
	1139	6	"						90	91	915	92-905
	PM 226	8	"						90	915	92	92-90
	048	12	"						98	98.5	98	99-91
	240	16	"	1182	1193	1181	1195	1185	100	1015	101	102-1007
	PM		Recharge # 5									
	240	36		1575	1587	1581	1567	1587				
	25	0	30	148	1465	1466	146	146				
	27	2	"	1405	140	1395	140	140				
	30	5	"	1387	1375	137	137	1375				
	35	10	"	136	135	135	1362	1355				
	47	22	"	133	133	1325	1325	133				
	55	30	"	1322	132	1315	1315	132				
	905	40	"	130	130	130	130	130				
	25	60	"	1262	126	126	126	126				
	45	80	"	1247	1265	1265	1265	1245				
	1005	100	"	1225	1225	1232	1225	123				
	25	120	"	1205	121	1205	1205	121				
	45	140	"	1197	120	120	1195	120				
	1105	160	"	1196	198	119	119	1192				

AIV

DATE	TIME	MIN.	AMP'S	VOLTS					TEMPS				
				1192	2006	2019	2040	2056	1192	2044	2059	2040	2068
	PM		30										
4-20-11	1125	150	"	↓	↓	↓	↓						
	1145 AM	200	"	116	1175	1145	117	117					
4-21-11	1205	220	"	1142	116	116	116	116	926	98	98	924-903	
	25	240	"	114	1143	114	1132	116					
	45	260	"	112	113	112	1125	112					
	1106	280	"	110	111	110	1102	110					
	26	300	"	107	1076	107	1085	108					
	36	310	"	1062	1062	1018	108	106					
	46	320	"	1068	106	1046	1011	106					
	56	330	"	102	102	102	1008	1076					1665
	2:08	340	"	101	100	100	995	100					170
	18	350	"	98	995	91	998	998					170
	28	360	"	945	91	91	80	90					
	56	370	"	88	825	82	82	80					
	318	3705	"	—	—	—	42	—					97-185
	48	380	"	76	765	42	—	42					
	96	381	"	—	—	—	—	42					1905 99
	148	3815	"	—	—	60	—	—					1004-1907
	6:2	397	"	60	—	—	—	—	98				1935
	6:28	3815	"	—	60	—	—	—		99			1927

William
(YMC)



A IV

DATE	TIME	MIN.	AMP'S	VOLTS 1st	30#6	30#8	30#10	2#16	TEMPS 2	3	4	5
3/26/11	A.M.				Charge#			15				
	1100	0	30	154	152	153	154	156	90	91	91-93	
	700	3	"						87	88	88	88-87
	1000	6	"						87	88	89	89-88
P.M.	100	9	"						92	93	93	93-93
	400	12	"						93	94	94	94-93
	700	15	"	164	164	163	164	165	94	95	95	95-95
				Discharge								
	7.3	Men		158	157	155	157	154				
	05	0	30	148	147	146	144	146				
	07	2	"	140	140	140	140	140				
	10	5	"	137	136	136	136	136				
	15	10	"	132	133	134	135	133				
	25	20	"	133	132	132	133	133				
	35	30	"	1315	1312	1312	131	131				
	45	40	"	130	129	129	129	129				
	8.5	60	"	127	127	126	127	127				
	95	80	"	125	125	124	125	125				
	45	100	"	—								
	9.5	120	"	122	122	121	122	122				
	25	140	"	120	120	120	120	120				
	45	160	"	118	118	118	118	118	96	95	96	96-95
	1005	180	"	118	118	118	118	118				

A IV

DATE	TIME	MIN.	AMP'S	VOLTS 1st	30#6	30#8	30#10	2#16	TEMPS 1	2	3	4	5
4/26/11	PM												
	1025	200	30	116	117	116	117	118					
	45	220	"	116	116	116	116	117					
	1105	240	"	114	115	114	115	115					
	25	260	"	113	114	113	113	114					
	45	280	"	111	111	110	110	112					
4/27/11	AM 1205	300	"	108	109	108	108	109					
	15	310	"	107	107	106	106	108					
	25	320	"	106	106	105	104	106					
	35	330	"	104	103	103	102	104					
	45	340	"	102	101	100	100	102					
	55	350	"	99	98	97	96	98					
	105	360	"	95	93	92	86	93					
	15	370	"	89	87	84	70	86					
	20	375	"				50		91				
	25	380	"	76	76	68		66					
	28	383	"			50			101				
	30	385	"				50		100				
	35	390	"	50	61				99				
	38	393	"		50				100				

Mt. Hosea & Steve
Fm. 4/27/11
1147½

1000 @ 172
170
174.5
172
174
107.5
197.7
195.5
194.5
196.5

H IV.

DATE	TIME	MIN.	AMP'S	Volts 1798	2040	2078	2140	2168	Temps 1	2	3	4	5
4/27/11													
	AM			Charge #16									
	4 40	0	30	155	155	157	156	155	85	87	87	86	
	42	2	"	162	161	161	163	162					
	45	5	"	163	1625	162	154	163					
	50	10	"	165	165	164	166	1667					
	5 00	20	"	166	167	165	1677	1677					
	10	30	"	168	1647	1657	169	1675					
	1 30	40	"	170	1697	170	170	170					
	40	50	"	169	169	170	1695	1685					
	6 00	80	"	1665	1655	1655	168	168					
	20	100	"	168	168	168	168	168					
	52	120	"	168	168	168	168	168					
	7 00	140	"	168	168	168	168	168					
	20	160	"	1665	168	168	168	1685					
	40	180	"	169	1685	169	1665	169	88	88	88	87	86
	8 00	200	"	168	168	168	168	168					
	20	220	"	168	168	168	168	1685					
	40	240	"	169	169	169	169	169					
	9 00	260	"	170	170	170	170	170					
	20	280	"	171	1715	1705	171	171					
	40	300	"	172	172	172	172	172					
	1000	320	"	172	172	172	173	173					
	20	340	"	173	173	1725	1725	173					

H IV

DATE	TIME	MIN.	AMP'S	Volts 1798	2040	2078	2140	2168	Temps 1	2	3	4	5
	AM												
	1640	360	30	174	175	175	176	1757					
4/27/11	1700	380	"	177	178	178	180	179					
	20	1400	"	180	180	183	182	182					
	40	420	"	1815	1817	181	183	1825					
	AM			discharge									
	1143	ap	30	156	156	158	156	156					
	45	0	"	146	144	144	144	144					
	47	2	"	138	1365	1365	137	137					
	50	5	"	134	1335	1335	136	1335					
	55	10	"	134	133	1335	134	1335					
PM	1205	00	"	131.8	1335	1315	1312	131					
	15	30	"	129	129	1295	129	1295					
	25	40	"	127	127	1275	1275	127					
	45	60	"	125	1255	1255	1255	1255					
	105	80	"	122.5	1225	1225	1225	1225					
	25	100	"	120.5	121	121	121	121.2					
	40	120	"	119.5	120	120.2	120						
	205	140	"	119	119.2	119.5	119.2	120					
	25	160	"	118.5	118.5	119	119	119.1					
	45	180	"	116.2	117	117	117	117.5	90	90	91.5	91.5	92
	305	200	"	115	115.5	115.5	115.5	116					
	25	220	"	114	114	114	114.5	114					
	45	240	"	111	111	111.5	111.5	111.5					

Temps — 7 hrs

A IV

DATE	TIME	MIN.	AMP'S	V	O	V	S	T.C.	P	S
	P.M.			1792	2046	2058	2100	2066	792	746	718	742	68
4-27-11	405	260	30	1094	1095	1094	1093	1112					
	15	274	"	108	108	1085	1084	1107					
	25	280	"	1065	106	106	106	107					
	35	298	"	1037	1034	1033	1032	1052	129				
	45	298 / 305	"	100	99	1002	99	1017	945	97	96	963	
	50	305	"			100		100	1585				958

P.M. — Recharge #17

600	0	30	150	153	152	153	153	93	93	935	93	930	
02	2	"	154	154	154	155	155						
05	5	"	158	158	158	158	158						
10	10	"	159	159	159	160	160						
20	20	"	163	164	161	165	165						
30	30	"	167	167	166	168	168						
40	40	"	168	168	167	168	168						
700	60	"	167	167	167	1665	167						
20	80	"	166	166	166	166	166						
80	100	"	166	166	166	166	166						
800	120	"	166	166	166	166	166						
20	140	"	1662	166	166	166	166						
40	160	"	166	166	166	166	166						
900	180	"	1675	1675	167	167	167						

A IV

DATE	TIME	MIN.	AMP'S	V	O	V	S	T.C.	P	S
	P.M.			1792	2046	2058	2100	2066	792	746	718	742	68
4-27-11	920	200	30	167	167	167	1672	1672					
	40	220	"	1675	1672	167	1675	1675					
	1000	240	"	170	1697	1692	170	170					
	20	260	"	1702	1702	170	1707	1705					
	40	280	"	172	1727	1722	1725	1725					
	1100	300	"	176	176	1754	176	1757					
	20	320	"	178	178	1775	178	178					
	40	340	"	180	1805	180	1814	1807					
	1200 AM	360	"	1817	1824	1817	183	1825					
4-28-11	20	380	"	183	183	1825	184	1834					
	40	400	"	1835	184	1827	184	1834					
	100	420	"	1844	1844	1844	1844	1844	88	90	90	90-88	

A.M. — Recharge

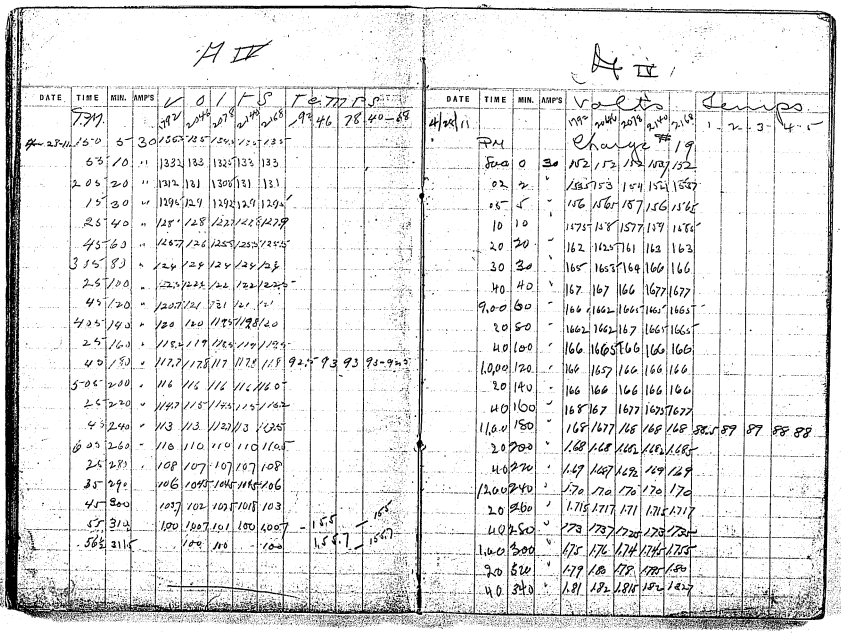
4-28-11	103	000	"	1875	187	1864	187	1865					
	05	5	"	146	146	1465	146	1467					
	07	7	"	138	1375	137	138	1377					
	10	10	"	136	135	135	1357	1354					
	15	15	"	134	134	1337	134	1337					
	25	25	"	132	1317	1315	1317	1317					
	35	35	"	130	1297	1297	130	1297					
	45	45	"	128	128	128	128	128					
	255	60	"	125	1258	1252	1267	1267					

H.IV.

DATE	TIME	MIN.	AMP'S	VOLTS 1792	2046	2218	2140	2168	TEMPS 1792	2046	2218	2140	2168
	A.M.												
4-28-11	2.25	180	30	1237	1241	1237	1241	1241					
	.45	200	"	1221	1221	1221	1231	1221					
	3.05	220	"	1205	1211	1211	1211	1211					
	.25	240	"	1201	1201	1201	1201	1201					
	.45	260	"	1191	1195	1195	1195	1197					
TEMPS	4.05	280	"	118	118	118	118	118	91	91	91	91	91
	.25	300	"	1152	1157	116	1162	1117					
	45	320	"	1145	1157	115	115	1153					
	5.05	340	"	1133	1137	113	1137	114					
	25	360	"	1116	111	1125	1125	1124					
	45	380	"	1070	1075	1072	1072	1080					
	6.05	390	"	1057	1049	1047	1047	1059					
	6.25	400	"	1044	1044	1037	1035	104					
	12	307	"	100	100	100	100	153.5	93	93	94	92	
	10	310	"				100	- 155				92	
	A.M.					Change	18						
4-29-11	6.40	0	30	148	1485	149	1485	15	92	93	92	91	90
	42	2	"	154	154	154	1545	154					
	45	5	"	155	155	156	155	156					
	50	10	"	158	1585	158	1545	159					
	7.00	20	"	162	1625	161	163	163					
	10	30	"	1657	166	164	166	166					
	20	40	"	167	167	166	1677	1677					

H.IV

DATE	TIME	MIN.	AMP'S	VOLTS 1792	2046	2218	2140	2168	TEMPS 2	6	8	0	8
	A.M.												
4-28-11	7.40	60	30	166	166	166	166	166					
	8.00	80	"	165	165	165	165	165					
	20	100	"	166	1657	166	166	166					
	40	120	"	166	166	1683	166	166					
	9.00	140	"	165	166	1663	1662	1677					
	20	160	"	167	1677	167	167	167					
	40	180	"	1677	167	167	167	1675					
	10.00	200	"	1662	166	1662	166	166	87	88	88	89	87
	20	220	"	169	1692	167	1687	167					
	40	240	"	171	1705	1705	171	1705					
	11.00	260	"	171	171	1705	1705	1707					
	20	280	"	172	173	1717	172	172					
	40	300	"	175	176	174	1747	175					
	12.00	320	"	178	179	178	178	178					
P.M.	20	340	"	178.5	179	178	179	179					
	40	360	"	182	182	182.5	182.5	182					
	1.00	380	"	183	183	183	1835	183					
	20	400	"	1835	183.5	1835	183.5	183.5					
	40	420	"	183	183.5	183.5	184	184	89	90	91	91-5	
	P.M.					Discharge						Thro	
4-28-11	1.43	open		156	156	155.5	156	156					
	45	0	30	1464	145	145	145	1446					
	47	2	"	137	136.5	136.5	136.5	1365					



A II

DATE	TIME	MIN.	AMPS	V	O	I	S	Temps 1	2	3	4	5	6	7	8
	1PM			138	2048	2078	2148	2168	96	46	78	40	68		
4/28/11	15-0	5	30	1367	126	1264	1264	1334							
	5	10	"	1332	133	1325	132	133							
	20	20	"	1312	131	1308	131	131							
	15	30	"	1296	129	1292	129	1294							
	25	40	"	1281	128	1277	128	1278							
	45	60	"	1267	126	1255	1255	1255							
	35	80	"	1246	124	1241	124	1238							
	25	100	"	1224	1225	122	1224	1225							
	45	120	"	1207	121	121	121								
	425	140	"	120	120	1195	1198	120							
	25	160	"	1184	119	1185	1194	1194							
	40	180	"	1177	1178	117	1178	118	92.5	93	93	93-94.5			
	5-05	200	"	116	116	116	116	1160							
	25	220	"	1147	115	1145	115	1152							
	45	240	"	113	113	1123	113	1135							
	6 05	260	"	110	110	110	110	1100							
	25	280	"	108	107	107	107	108							
	35	290	"	106	1045	1045	1045	106							
	45	300	"	103	102	103	1018	103							
	55	310	"	100	1007	101	100	1007	- 155		165				
	565	315	"		104	104		104	155		156				

A IV

DATE	TIME	MIN.	AMPS	V	O	I	S	Temps 1	2	3	4	5	6	7	8
				198	2046	2078	2148	2168							
4/28/11				Charge 19											
	PM														
	5-00	0	30	152	153	153	153	153							
	02	2	"	153	153	154	154	154							
	05	5	"	156	156	157	157	156							
	10	10	"	1575	158	1577	158	1586							
	20	20	"	162	1625	161	162	163							
	30	30	"	165	1653	164	166	166							
	40	40	"	167	167	166	1677	1677							
	9.00	60	"	166	1662	1661	1665	1663							
	20	80	"	1662	1662	167	1665	1665							
	40	100	"	166	1665	166	166	166							
	10,00	120	"	166	1657	166	166	166							
	20	140	"	166	166	166	166	166							
	40	160	"	168	167	1677	1675	1677							
	11,00	180	"	169	1677	168	168	168	98.5	89	87	88	88		
	20	200	"	168	168	168	168	168							
	40	220	"	169	169	168	169	169							
	12,00	240	"	170	170	170	170	170							
	20	260	"	1715	1717	171	171	1717							
	40	280	"	173	173	1720	173	1734							
	1,00	300	"	175	176	174	174	175							
	20	320	"	179	178	178	178	180							
	40	340	"	181	182	1815	182	1827							

A.IV

DATE	TIME	MIN.	AMP'S	VOLTS 1992	2046	2018	2040	2168	1992	2046	2018	2168	TEMPS 90	92	915	91	90
4/28/11	P.M.		30														
	2.00	20	"	1835	183	182	183	184									
	20	360	"	184	184	184	184	184									
	40	900	"	184	184	183	184	184									
	3.00	420	"	184	184	184	184	184	90	92	915	91	90				
	P.M.			Recharge													
	3.03	0	30	156	156	156	156	156									
	05	0	"	146	145	144	144	144									
	.10	2	"	138	137	136	137	137									
	.10	5	"	136	135	135	135	135									
	.15	10	"	134	134	133	134	134									
	.20	20	"	132	132	132	132	132									
	.30	30	"	130	130	130	130	130									
	.40	40	"	128	128	128	128	128									
	4.05	60	"	126	126	126	126	126									
	.20	90	"	124	124	124	124	124									
	.40	100	"	123	123	123	123	123									
	5.05	120	"	121	121	121	121	122									
	.20	140	"	120	121	121	121	121									
	.40	160	"	119	119	119	119	119									
	6.05	180	"	118	118	118	118	118	92	94	94	95	94				
	.20	200	"	116	117	116	117	117									
	.35	220	"	115	116	115	115	116									

A.IV

DATE	TIME	MIN.	AMP'S	VOLTS 1992	2046	2018	2040	2168	1992	TEMPS 2046	2018	2040	2168
	A.M.												
4/29/11	7.05	240	30	115[7]	114	115[2]	115[7]	114					
	25	360	"	111	111[2]	111	111	112					
	45	480	"	108	108	108	107	1085					
	55	490		106	106[2]	106	106	107					
	8.05	500		105	104	104	103	105					
	10	510		102	100	100	98	1045					
	25	525		95	95	94	89[5]	96					
	30	530		89	88	88	86	85					
	40	540		72[5]	77	75[5]	61	171					
	49	549					50	172					
	52	552		50				104					
	55	555			68			105					
	59	559			50								
	P.M.			Charge 20									
4/29/11	10.45	0	30	156	156	157	158	158	94	97	957	95	95
	1.45	3	"						935	945	95	945	935
	4.45	6	"						94	94	95	96	94
	7.45	7	"						94	95	96	97	96
	Charge interrupted Storm 15 hours												
	8.45	7	30	160	160	160	160	162	925	935	937	98	925
	11.45	10	"						925	935	935	985	975
	2.45	18	"						965	97	98	99	97
Power Off	4.45	15		132	133	133	134	134	95	98	977	98	975

- 153.2
- 153.5
- 152.2
- 157
- 1027
- 102
- 177

F I ①

DATE	TIME	MIN.	AMP'S
			1792 2026 2078 2140
H30 11			Cells were then disconnected
5.1.11 #17			from Equal + connected up to
			Bus. The latter was then returned
			to Room.

1886 H

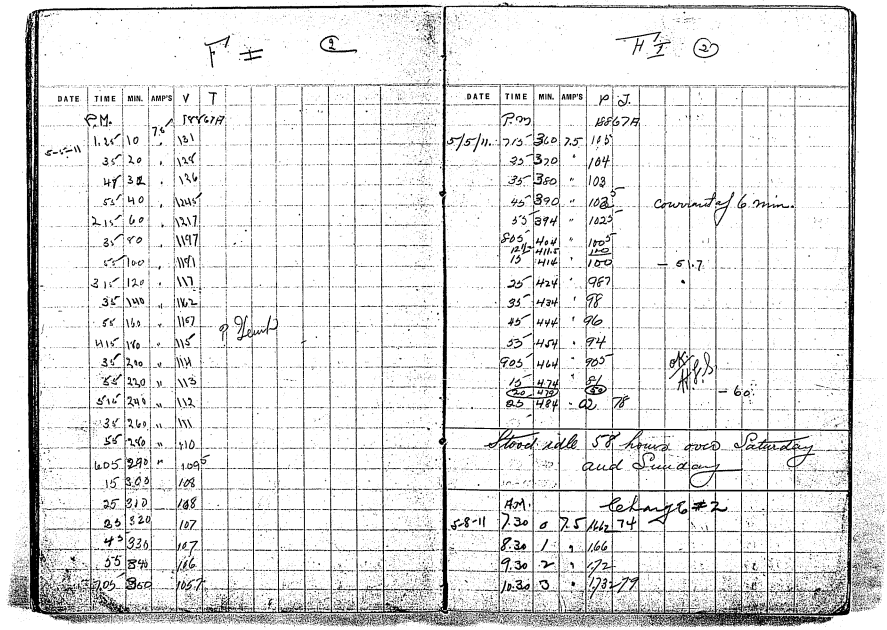
#1886 H is a special cell consisting of one positive + two negative plates from #14 cell #1866 mounted with glass insulators in an #14 Can

It was filled with 1700 CC 25% KOH + 15 g LiOH per liter + after soaking for about 30 hours the were emptied out and cell refilled with 1900 CC 21% KOH + 45 g/L LiOH (total)

It was then run as follows

F I ②

DATE	TIME	MIN.	AMP'S	
			1886 H	
	TPM			Charge #1
5-4-11	1010	0	7.5	1783
	1110	1	"	1662
5-5-11	1210	2	"	1615
	110	3	"	1567 763
	210	4	"	1607
	310	5	"	1.182
	410	6¼	"	1697 77
	510	7½	"	1737
	610	8	"	1717
	710	9	"	1727
	810	10	"	—
	910	11	"	1733
	1010	12	"	1744
	1110	13	"	1745 79
	1210	14	"	1745
	110	15		1745 — 15 Jan
	TPM			Discharge
	113	0 then	1.7	795
	15	0	7.5	1744
	17	2	"	1356
	20	5	"	134



F ± ②

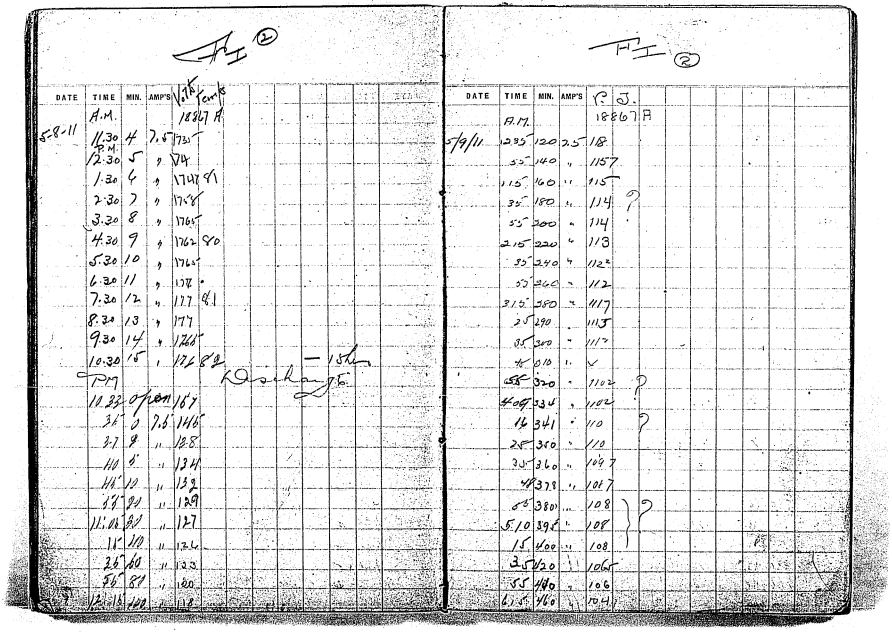
DATE	TIME	MIN.	AMP'S	V	T
	P.M.		7.6	1886.7A	
5-5-11	1.25	10	"	131	
	35	20	"	1295	
	45	30	"	1296	
	55	40	"	1295	
	2.15	60	"	1217	
	35	80	"	1197	
	55	100	"	1181	
	3.15	120	"	1173	
	35	140	"	1162	
	55	160	"	1157	@ 2 hours
	4.15	180	"	1145	
	35	200	"	1134	
	55	220	"	1128	
	5.15	240	"	1132	
	35	260	"	1111	
	55	280	"	1110	
	6.05	290	"	1095	
	15	300	"	1088	
	25	310	"	1088	
	35	320	"	1087	
	45	330	"	1087	
	55	340	"	1086	
	7.05	350	"	1057	

H I ②

DATE	TIME	MIN.	AMP'S	V	J
	P.M.			1886.7A	
5/5/11.	7.15	360	7.5	1155	
	25	370	"	1104	
	35	380	"	1085	
	45	390	"	1085	Commenced at 6 min.
	55	394	"	1022	
	8.05	404	"	1005	
	12½	410	"	1000	
	15	414	"	1000	- 51.7
	25	424	"	987	
	35	434	"	98	
	45	444	"	976	
	55	454	"	974	
	9.05	464	"	965	
	10	474	"	84	OK
	50	490	"	80	
	55	494	"	02. 78	- 60.

Stored idle 58 hours over Saturday and Sunday

	A.M.			Change #2	
5-8-11	7.30	0	7.5	1442 74	
	8.30	1	"	1166	
	9.30	2	"	972	
	10.30	3	"	1783-79	

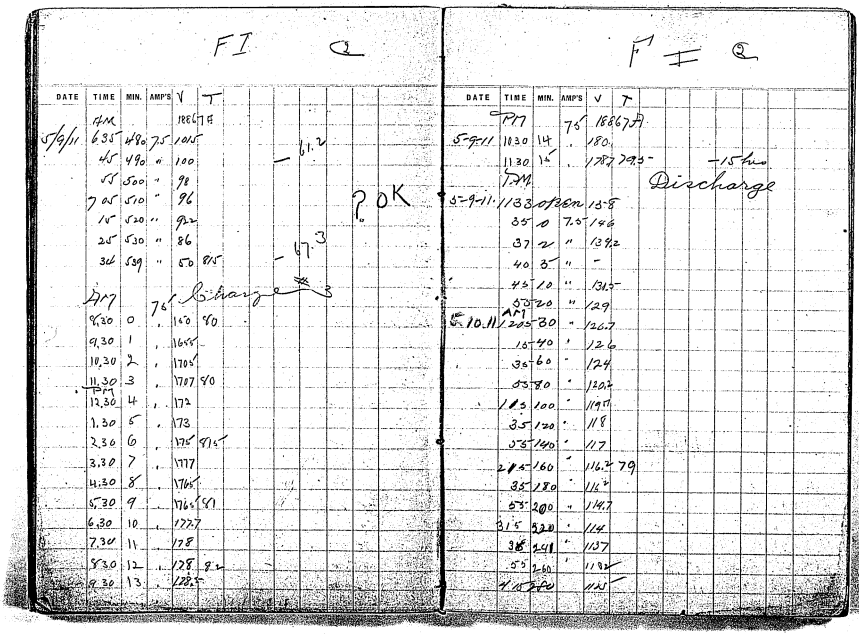


TH (2)

DATE	TIME	MIN.	AMP'S	Volts	Remarks
	A.M.			1886?	A
5-8-11	11.30	4	7.6	1736	
	P.M. 12.30	5	"	174	
	1.30	6	"	1748	91
	2.30	7	"	1745	
	3.30	8	"	1765	
	4.30	9	"	1762	90
	5.30	10	"	1765	
	6.30	11	"	178	
	7.30	12	"	177	91
	8.30	13	"	177	
	9.30	14	"	1768	
	10.30	15	"	172	88
	TM				Koshkonong
	12.30	0	pm	167	
	31	0	7.8	1146	
	3.7	8	"	128	
	111	6	"	134	
	111	10	"	132	
	1.5	84	"	129	
	11.11	84	"	127	
	15	10	"	126	
	26	60	"	123	
	26	81	"	120	
	12.15	100	"	118	

TH (2)

DATE	TIME	MIN.	AMP'S	P. J.	
	P.M.			1886?	A
5/9/11	1295	120	2.5	118	
	35	140	"	1157	
	115	160	"	115	
	35	180	"	114	?
	55	200	"	114	
	215	220	"	113	
	35	240	"	112	
	55	260	"	112	
	315	280	"	1117	
	25	290	"	1115	
	35	300	"	1117	
	45	310	"	V	
	55	320	"	1102	?
	405	335	"	1102	
	15	341	"	110	?
	25	350	"	110	
	35	360	"	1097	
	45	370	"	1097	
	55	380	"	108	?
	510	395	"	108	
	15	400	"	108	
	35	420	"	1067	
	55	440	"	106	
	615	460	"	1041	



FI

DATE	TIME	MIN.	AMP'S	V	T
	HM			1886	78
5/9/11	6.35	480	75	1015	
	45	490	"	100	
	55	500	"	98	
	7.05	510	"	96	
	15	520	"	92	
	25	530	"	86	
	36	539	"	50	85
	PM				
	8.30	0	"	160	80
	9.30	1	"	1655	
	10.30	2	"	1705	
	11.30	3	"	1707	80
	12.30	4	"	172	
	1.30	5	"	173	
	2.30	6	"	175	815
	3.30	7	"	1717	
	4.30	8	"	1765	
	5.30	9	"	1765	81
	6.30	10	"	177.7	
	7.30	11	"	178	
	8.30	12	"	178	82
	9.30	13	"	178.5	

61.2

47.3

Discharge

FE

DATE	TIME	MIN.	AMP'S	V	T
	PM		75	1886	78
5-9-11	1130	14	"	180	
	1130	15	"	1787	795
	PM				
5-9-11	11.30	0	BEN	15.8	
	35	5	"	146	
	37	7	"	139.2	
	40	8	"	-	
	45	10	"	131.5	
	50	20	"	129	
5-10-11	AM 1225	30	"	126.7	
	10	40	"	126	
	35	60	"	124	
	55	80	"	120.7	
	1.15	100	"	119.1	
	35	120	"	118	
	55	140	"	117	
	2.15	160	"	116.7	79
	35	180	"	116.2	
	55	200	"	114.7	
	3.15	220	"	114	
	35	241	"	1137	
	55	260	"	1132	
	4.15	280	"	1125	

15 hrs

P OK

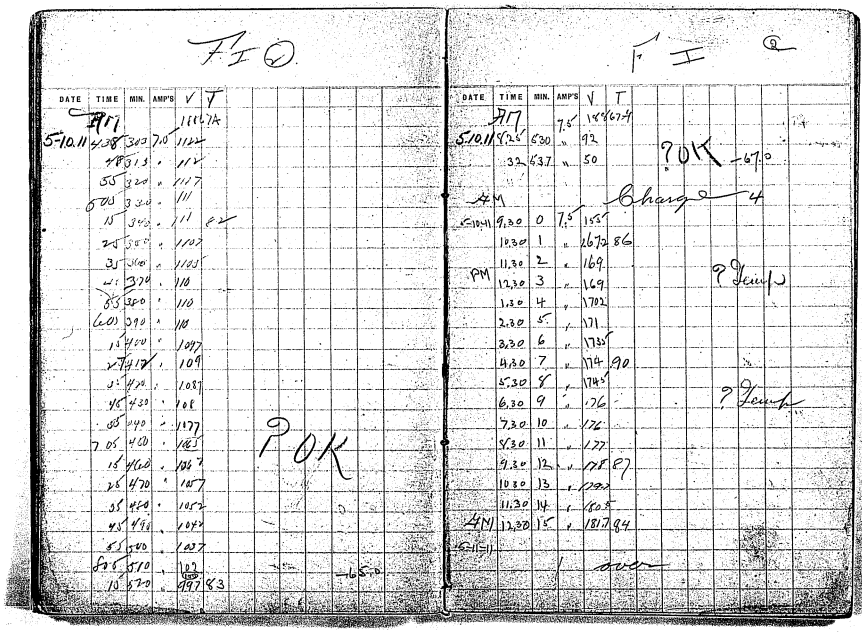


FIG. 1

DATE	TIME	MIN.	AMP'S	V	T
	AM			111.7A	
5-10.11	4:28	300	7.0	112	
	4:33	"		114	
	55	4:20	"	117	
	5:00	3:30	"	111	
	10	3:40	"	111	82
	20	3:50	"	1102	
	30	4:00	"	1105	
	40	3:20	"	110	
	50	3:30	"	110	
	6:00	3:40	"	110	
	10	4:00	"	1097	
	20	4:10	"	109	
	30	4:20	"	1087	
	40	4:30	"	108	
	50	3:40	"	1077	
	7:00	4:00	"	1085	
	10	4:00	"	1067	
	20	4:10	"	1057	
	30	4:20	"	1052	
	40	4:30	"	1042	
	50	3:40	"	1037	
	8:00	3:50	"	103	
	10	3:20	"	997	83

POK

-65.0

FIG. 2

DATE	TIME	MIN.	AMP'S	V	T
	AM		7.5	114	67.4
5-10.11	8:25	630	"	93	
	32	637	"	50	
	#4			Charge	4
5-10-11	9.30	0	7.5	155	
	10.30	1	"	1672	86
	11.30	2	"	169	
PM	12.30	3	"	169	
	1.30	4	"	1702	
	2.30	5	"	171	
	3.30	6	"	1735	
	4.30	7	"	174	90
	5.30	8	"	174.5	
	6.30	9	"	176	
	7.30	10	"	176	
	8.30	11	"	177	
	9.30	12	"	178	87
	10.30	13	"	1790	
	11.30	14	"	1805	
AM	12.30	15	"	1817	94
5-11-11				over	

POK -67.0

? Temp

? Temp

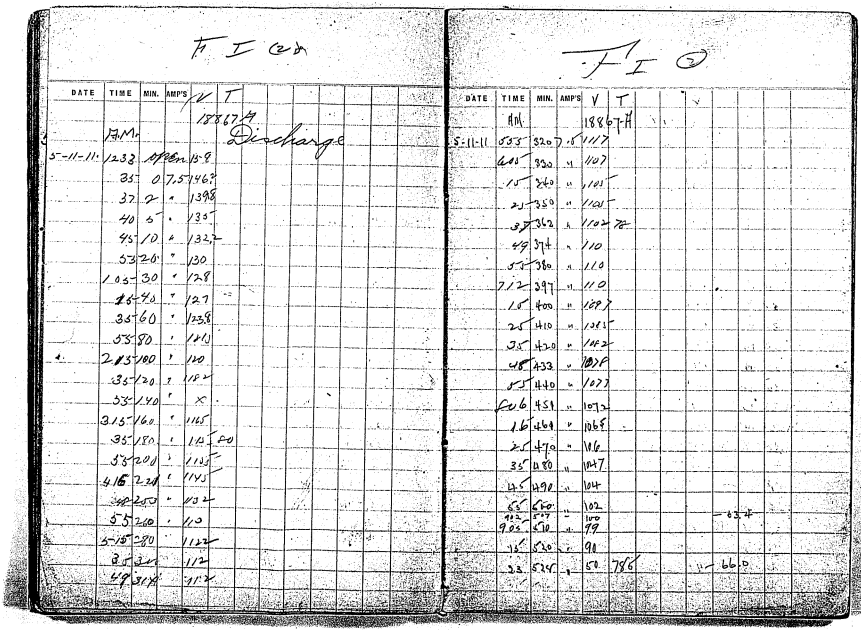


Fig 1

DATE	TIME	MIN.	AMPS	V	T
				1886	4
	P.M.				Discharge
5-11-11	1238		Amps	15.8	
	35	0	7.5	146?	
	37	2	"	139?	
	40	5	"	135	
	45	10	"	132.7	
	53	20	"	130	
	103	30	"	128	
	26	40	"	127	
	35	60	"	125?	
	53	80	"	121	
	215	100	"	120	
	35	120	"	118	
	53	140	"	X	
	315	160	"	116	
	35	180	"	114	FD
	53	200	"	113	
	416	220	"	112	
	48	240	"	103	
	55	260	"	110	
	5-15	280	"	1122	
	35	300	"	112	
	49	315	"	91?	

Fig 2

DATE	TIME	MIN.	AMPS	V	T
	AM			1886	4
5-11-11	553	320	"	1117	
	605	330	"	1107	
	15	340	"	1101	
	25	350	"	1101	
	35	362	"	1102	72
	45	374	"	110	
	55	380	"	110	
	712	397	"	110	
	25	400	"	1097	
	25	410	"	1101	
	35	420	"	1102	
	45	433	"	1097	
	55	440	"	1077	
	806	451	"	1072	
	16	464	"	1068	
	25	470	"	116	
	35	480	"	1047	
	45	490	"	104	
	55	500	"	102	
	902	512	"	100	— 63 F
	905	520	"	99	
	15	530	"	91	
	28	535	"	50	786 — 66.0

F I (9)

Charge #5

DATE	TIME	MIN.	AMP'S	V	T
A.M.			7½	18867	9
6-11-11	10.30	0	"	186	905
	11.30	1	"	1677	
PM	12.30	2	"	1678	
	1.30	3	"	167	9½
	2.30	4	"	1662	
	3.30	5	"	1705	
	4.30	6	"	1717	92
	5.30	7	"	173	
	6.30	8	"	173	
	7.30	9	"	173	94
	9.30	10	"	171	
	9 30	11	"	1779	
	10.30	12	"	180	88
	11.30	13	"	1685	
	12.30	14	"	182	
	2.30	16	"	182	
	A.M				
	2.33	0700		159	
	35	0	76	147	
	37	2	-	148	
	40	5	-	144	
	45	10	-	1325	

1 hr. overcharge.
add cells cima down
subtracted
was light
16 hrs
Discharge

F I (2)

DATE	TIME	MIN.	AMP'S	V	T
	A.M.			18867	9
5/12/11	255	20	7.5	130	
	305	20	"	128	
	15	40	"	126	
	35	60	"	124	
	55	80	"	122	
	405	100	"	120	
	35	120	"	1187	
	55	140	"	118	
	505	160	"	117	
	35	180	"	116	84
	55	200	"	116	
	6 15	220	"	115	
	35	240	"	1145	
	55	260	"	114	
	715	280	"	113	
	35	300	"	1127	
	55	320	"	112	
	805	330	"	112	
	15	340	"	1118	
	25	350	"	1117	
	35	360	"	1113	
	45	370	"	1115	
	55	380	"	111	

F I ②

DATE	TIME	MIN.	AMP'S	V	T
4 M.			7.5	188674	
5-12-11	9.05	390	"	111	
	25	410	"	1085	
	46	430	"	1094	
	56	440	"	109	
	10.05	450	"	1095	
	15	460	"	108	
	25	471	"	107	
	35	480	"	1054	
	45	490	"	1042	
	55	500	"	1033	
		500		990	−63.2
	11.05	510	"	996	
	15	520	"	996	
	1997	523	"	50.47	− 65.4
1.77				Charge +6	
	12.50	1	7.5	151 87	
	52	2	"	156	
	53	5	"	1672	
	100	10	"	—	
	10	20	"	1615	
	20	30	"	1625	
	30	40	"	164	
	50	60	"	167	

F I ②

DATE	TIME	MIN.	AMP'S	V.	J.
5/12/11	PM			188674.	
	2.10	50	7.5	1687	
	30	100	"	1684	
	50	120	"	1679	
	3.10	140	"	167	
	30	160	"	1665	
	50	180	"	167	
	4.10	200	"	1675	
	30	220	"	168	
	50	240	"	168	
	5.10	260	"	—	
	30	280	"	178	
	50	300	"	17005	
	6.10	320	"	171	
	30	340	"	1715	
	50	360	"	172	
	7.10	380	"	1725	
	30	400	"	173	
	50	420	"	1744	−7 hrs
5/13/11	Am			2 Recharge.	
	7.52	0	7.5	1748	
	8.28	0	"	1744	
	8.7	0	"	1882	

F 1 (2)

DATE	TIME	MIN.	AMPS	V	T
5/12/11	From				18867 H
	8:1	5	70		13116
	1	10	"		132
	15	05	"		130
	19	30	"		127
	24	45	"		125.5
	28	60	"		133.7
	9:1	80	"		132
	24	100	"		130.5
	37	90	"		129.5
	10:14	140	"		119
	24	160	"		118
	45	180	"		117
	11:14	300	"		116
	26	9:0	"		115
	32	240	"		V
	38	254	"		114
	15	264	"		113.7
	24	270	"		K
	35	280	"		112
	08	0:0	"		112.5 T
	55	3:0	"		112
	1:08	310	"		111
	1.5	320	"		111
	3.5				

F I (2)

DATE	TIME	MIN.	AMPS	V	T
	AM				11467A
5/13/11	12.5	300	70		
	35	340	"		
	40	353	"	109	
	55	360	"	107	45.6
	2:05	378	"	105	46
					45.2

The Cell will need stand till # 18867 B, which is similar in all respect, except it has rubber insulator instead of glass. Load the same number of hours which the 2 well here in series.

	HIT	18867 B		
5.12.11	1.00	1700 C.C. 25 % KOH + 15 g LOH per liter put into cell, 2 plate		
	PM	allowed to soak 3.3 hours.		
5.14.11	1.00	This was then emptied & removed with 900 C.C. 21% KOH + 50 g LiOH per liter and 800 C.C. 21% KOH straight. Total 1,700 C.C.		
		Cell then stood 2 hours and was then as follows		